

FLO-ROK CRACKFAST

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FLO-ROK CRACKFAST RESIN (CFR) | Part A

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-15 Revised: 2023-01-04 Version: 3 (Replaced 2)

SECTION 1: IDENTIFICATION

1.1 Product identifier: CRACKFAST RESIN (CFR) | Part A

Other means of identification:

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Adhesive for construction

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Initial supplier identifier:

UCAN Fastening Products

155 Champagne Drive, Unit 10, Toronto, Ontario, M3J 2C6 Phone: (416) 631-9400 Fax: (416) 631-9426 Toll Free: CAD 1-800-268-1248 | USA 1-800-461-8226

Web: www.ucanfast.com

Contact person: Balwant K. Arjune | (416) 631-9400 Ex. 252

1.4 Emergency phone number: CHEMTREC 1-800-424-9300 | 1-703-527-3887 (24 hr. Emergency)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture:

WHMIS 2015:

Classification of this product has been carried out in accordance with Part 2 of Hazardous Products Regulations (SOR/2015-17)

Eye Irrit. 2: Eye irritation, Category 2, H319 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317

2.2 Label elements:

WHMIS 2015:

Warning



Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Precautionary statements:

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection.

P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P362+P364: Take off contaminated clothing and wash it before reuse.

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Substances that contribute to the classification

reaction product: bisphenol-A-(epichlorhydrin) (MW < 700); Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol; 1,4-bis(2,3 epoxypropoxy)butane

2.3 Health and physical hazards not otherwise classified (HHNOC - PHNOC):

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:



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According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Chemical description: Mixture composed of additives, pigments and resins

Components:

In accordance with Schedule I of the Hazardous Products Regulations (SOR/2015-17), the product contains:

	Identification Chemical name/Classification		Concentration
240		reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	60 - <80 %
CAS:	25068-38-6	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	60 - <80 %
040	0000 00 5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	10 - <30 %
CAS:	9003-36-5	Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	10 - <30 %
040	0405.70.0	1,4-bis(2,3 epoxypropoxy)butane	40 - 20 %
CAS:	2425-79-8	Acute Tox. 4: H302+H312+H332; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	10 - <30 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

Identification	Specific concentration limit
	% (w/w) >=5: Skin Irrit. 2 - H315 % (w/w) >=5: Eye Irrit. 2 - H319

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation

This product is not classified as hazardous through inhalation,however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Specific hazards arising from the chemical:



FLO-ROK CRACKFAST RESIN (CFR) | Part A

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

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SECTION 5: FIRE-FIGHTING MEASURES (continued)

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.



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According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

There are no applicable occupational exposure limits for the substances contained in the product

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using chemical protection gloves

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration.
	Anti-slip work shoes	Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
*	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	- ((((((((((DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds (VOC) according to Canadian Environmental Protection Act, 1999:



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Volatile organic compounds: 0 % weight
V.O.C. density at 20 °C: 0 kg/m³ (0 g/L)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:

Appearance:

Not available

Not available

Odor:

Not available

Not available

Nodor:

Not available

Non-applicable *

Volatility:

Boiling point at atmospheric pressure:

Vapour pressure at 20 °C:

Vapour pressure at 50 °C:

Non-applicable *

Non-applicable *

Non-applicable *

Non-applicable *

Non-applicable *

Product description:

Density at 20 °C: 1110.2 kg/m³

Relative density at 20 °C: 1.11

Dynamic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 40 °C: Non-applicable * Concentration: Non-applicable * pH: Non-applicable * Vapour density at 20 °C: Non-applicable * Partition coefficient n-octanol/water 20 °C: Non-applicable * Solubility in water at 20 °C: Non-applicable * Solubility properties: Non-applicable * Decomposition temperature: Non-applicable * Melting point/freezing point: Non-applicable *

Flammability:

Flash Point: Non-applicable
Flammability (solid, gas): Non-applicable *

Autoignition temperature: 260 °C

Lower flammability limit:

Upper flammability limit:

Non-applicable *
Non-applicable *

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

Corrosive to metals: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.



FLO-ROK CRACKFAST RESIN (CFR) | Part A

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Heat of combustion: Non-applicable *

Aerosols-total percentage (by mass) of flammable

Non-applicable *

components:

Other safety characteristics:

Surface tension at 20 °C:

Refraction index:

Non-applicable *

Non-applicable *

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids Water		Oxidising materials	Combustible materials	Others	
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases	

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
 - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

FLO-ROK CRACKFAST RESIN (CFR) | Part A

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: Non-applicable
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
1,4-bis(2,3 epoxypropoxy)butane	LD50 oral	1163 mg/kg	Rat
CAS: 2425-79-8	LD50 dermal	1100 mg/kg (ATEi)	
	LC50 inhalation	1.5 mg/L (ATEi)	
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	LD50 oral	>5000 mg/kg	
CAS: 25068-38-6	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	LD50 oral	>5000 mg/kg	
CAS: 9003-36-5	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

Identification	Concentration		Species	Genus
1,4-bis(2,3 epoxypropoxy)butane	LC50	24 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 2425-79-8	EC50	Non-applicable		
	EC50	Non-applicable		

Chronic toxicity:

Identification		Concentration	Species	Genus
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	NOEC	Non-applicable		
CAS: 25068-38-6	NOEC	0.3 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:



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According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Degradability		Biodegradability	
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 25068-38-6	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	0 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential BCF 4	
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	BCF 4 Pow Log 2.8	
CAS: 25068-38-6		
	Potential	Low

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

Canadian Environmental Protection Act. 1999

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to Transportation of Dangerous Goods Regulations including Amendment SOR/2017-100



14.1 UN number: UN3082

2 United Nations proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) (MW < 700))

14.3 Transport hazard class(es): 9
Labels: 9
14.4 Packing group: III

14.5 Environmental hazard: Yes14.6 Special precautions which a user needs to be aware of, or need

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Transport in bulk (according to Non-applicable Annex II of MARPOL 73/78 and

the IBC Code):

Transport of dangerous goods by sea:

With regard to IMDG 40-20:



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According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

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SECTION 14: TRANSPORT INFORMATION (continued)

14.1 UN number: UN3082

14.2 United Nations proper ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) (MW < 700))

 14.3
 Transport hazard class(es):
 9

 Labels:
 9

 14.4
 Packing group:
 III

 14.5
 Marine pollutant:
 Yes

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection

with transport or conveyance either within or outside their premises

Special regulations: 335, 969, 274
EmS Codes: F-A, S-F
Physico-Chemical properties: see section 9

Limited quantities: 5 L

Segregation group: Non-applicable

14.7 Transport in bulk (according to Non-applicable

Annex II of MARPOL 73/78 and the IBC Code):

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:

14.1 UN number: UN3082

14.2 United Nations proper ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

shipping name: (reaction product: bisphenol-A-(epichlorhydrin) (MW < 700))

 14.3
 Transport hazard class(es):
 9

 Labels:
 9

 14.4
 Packing group:
 III

14.5 Environmental hazard: Yes

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection

with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Transport in bulk (according to Non-applicable

Annex II of MARPOL 73/78 and

the IBC Code):

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

- Domestic Substances List (DSL): reaction product: bisphenol-A-(epichlorhydrin) (MW < 700) (25068-38-6); Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5); 1,4-bis(2,3 epoxypropoxy)butane (2425-79-8)
- Non-Domestic Substances List (NDSL): Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Canadian Environmental Protection Act, 1999

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Part 4 and Schedule I of the Hazardous Products Regulations (SOR/2015-17)

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

Texts of the legislative phrases mentioned in section 3:



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According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

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SECTION 16: OTHER INFORMATION (continued)

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

WHMIS 2015:

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://whmis.org/

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

Date of compilation: 2022-12-15

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The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.



FLO-ROK CRACKFAST RESIN (CFR) | Part B

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

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SECTION 1: IDENTIFICATION

1.1 Product identifier: CRACKFAST RESIN (CFR) | Part B

Other means of identification:

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Adhesive for construction

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Initial supplier identifier:

UCAN Fastening Products

155 Champagne Drive, Unit 10, Toronto, Ontario, M3J 2C6 Phone: (416) 631-9400 Fax: (416) 631-9426 Toll Free: CAD 1-800-268-1248 | USA 1-800-461-8226

Web: www.ucanfast.com

Contact person: Balwant K. Arjune | (416) 631-9400 Ex. 252

1.4 Emergency phone number: CHEMTREC 1-800-424-9300 | 1-703-527-3887 (24 hr. Emergency)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture:

WHMIS 2015:

Classification of this product has been carried out in accordance with Part 2 of Hazardous Products Regulations (SOR/2015-17)

Acute Tox. 4: Acute toxicity, Category 4, H302+H312 Repr. 2: Reproductive toxicity, Category 2, H361 Skin Corr. 1B: Skin corrosion, Category 1B, H314 Skin Sens. 1: Sensitisation, skin, Category 1, H317

STOT RE 1: Specific target organ toxicity, repeated exposure, Category 1, H372

2.2 Label elements:

WHMIS 2015:

Danger







Hazard statements:

Acute Tox. 4: H302 - Harmful if swallowed. Acute Tox. 4: H312 - Harmful in contact with skin.

Repr. 2: H361 - Suspected of damaging fertility or the unborn child. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

P260: Do not breathe vapours.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P363: Wash contaminated clothing before reuse.

2.3 Health and physical hazards not otherwise classified (HHNOC - PHNOC):

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Chemical description: Mixture composed of additives, pigments and resins

Components:

In accordance with Schedule I of the Hazardous Products Regulations (SOR/2015-17), the product contains:

	Identification	Chemical name/Classification	Concentration
		Phenol, methylstyrenated	40 400 0/
CAS:	68512-30-1	Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	10 - <30 %
		2-piperazin-1-ylethylamine	
CAS:	140-31-8	Acute Tox. 3: H311; Acute Tox. 4: H302; Repr. 2: H361; Skin Corr. 1B: H314; Skin Sens. 1: H317; STOT RE 1: H372 - Danger	10 - <30 %
040:	04700 44 4	Phenol, styrenated	10 - <30 %
CAS:	61788-44-1	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Warning	10 - <30 %
040	100 51 0	benzyl alcohol	5 - <10 %
CAS:	100-51-6	Acute Tox. 4: H302+H332 - Warning	5-<10%
		2,4,6-tris(dimethylaminomethyl)phenol	- 400/
CAS:	90-72-2	Acute Tox. 4: H302+H312; Eye Dam. 1: H318; Skin Corr. 1C: H314; Skin Sens. 1B: H317 - Danger	5 - <10 %
		1,3-Cyclohexanedimethanamine	
CAS: 2579-20-6	Acute Tox. 4: H302+H312; Eye Dam. 1: H318; Skin Corr. 1A: H314 - Danger	1 - <5 %	
CAS:	68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	1 - <5 %
0/10.	00002-23-1	Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Danger	> 0,0
		Salicylic acid	4 - 7 0/
CAS:	69-72-7	Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	1 - <5 %
CAS:	186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	1 - <5 %
0/10.	100021-30-0	Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	> 0,0
		benzyl alcohol	
CAS:	100-51-6	Acute Tox. 4: H302+H332; Eye Irrit. 2: H319 - Warning	1 - <5 %
		3-aminopropyldimethylamine	
CAS:	109-55-7	Acute Tox. 4: H302; Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Corr. 1B: H314; Skin Sens. 1: H317; STOT SE 3: H335 - Danger	<1 %
040:	040.00.0	3-aminopropyltriethoxysilane	<1 %
CAS:	919-30-2	Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger	<1%

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Keep the person affected at rest.

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SECTION 4: FIRST-AID MEASURES (continued)

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).



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SECTION 7: HANDLING AND STORAGE (continued)

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in fixed places that comply with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to containers of small amounts. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

ONTARIO R.R.O. 1990, REGULATION 833 (Last amendment: 449/19)- CONTROL OF EXPOSURE TO BIOLOGICAL OR CHEMICAL AGENTS:

Identification	Occupational exposure limits		
3-aminopropyldimethylamine	TWA	0.5 ppm	2 mg/m³
CAS: 109-55-7	STEL		

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

In accordance with the order of importance to control professional exposure it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the professional exposure limits. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.4 mm)	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Remarks
Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection

Pictogram	PPE	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
•	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	- ♦	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds (VOC) according to Canadian Environmental Protection Act, 1999:

Volatile organic compounds: 43.64 % weight V.O.C. density at 20 °C: Non-applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:

Appearance:

Fluid

Color:

Amber

Odor:

Ammoniacal

Odour threshold:

Non-applicable *

Volatility:

Boiling point at atmospheric pressure: 222 °C Vapour pressure at 20 °C: 28 Pa

Vapour pressure at 50 °C: 216.07 Pa (0.22 kPa)
Evaporation rate at 20 °C: Non-applicable *

Product description:

Density at 20 °C: Non-applicable *

Relative density at 20 °C: ~1

Dynamic viscosity at 20 °C: Non-applicable *
*Not relevant due to the nature of the product, not providing information property of its hazards.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Kinematic viscosity at 20 °C:

Kinematic viscosity at 40 °C:

Non-applicable *

Non-applicable *

Non-applicable *

Non-applicable *

Non-applicable *

Vapour density at 20 °C:

Partition coefficient n-octanol/water 20 °C:

Non-applicable *

Non-applicable *

Non-applicable *

Solubility properties:

Decomposition temperature:

Melting point/freezing point:

Non-applicable *

Non-applicable *

Flammability:

Flash Point: Non Flammable (>93 °C)

Flammability (solid, gas): Non-applicable *

Autoignition temperature: 300 °C

Lower flammability limit: Non-applicable *
Upper flammability limit: Non-applicable *

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:

Oxidising properties:

Non-applicable *

Corrosive to metals:

Heat of combustion:

Aerosols-total percentage (by mass) of flammable

Non-applicable *

Non-applicable *

components:

Other safety characteristics:

Surface tension at 20 °C:

Refraction index:

Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases



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SECTION 10: STABILITY AND REACTIVITY (continued)

10.6 Hazardous decomposition products:

Contains substances which require external energy for spontaneous decomposition. Form explosive peroxides when distilled, evaporated or otherwise concentrated.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
 - Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.
- B- Inhalation (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
 - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: Cyclohexanone (3)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: Suspected of damaging fertility or the unborn child
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - · Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Serious health effects in the case of prolonged consumption, including death, serious functional disorders or morphological changes of toxicological importance.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acu	Genus	
2-piperazin-1-ylethylamine	LD50 oral	500 mg/kg (ATEi)	
CAS: 140-31-8	LD50 dermal	866 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	



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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	A	Genus	
1,3-Cyclohexanedimethanamine	LD50 oral	700 mg/kg	Rat
CAS: 2579-20-6	LD50 dermal	1700 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Phenol, styrenated	LD50 oral	>5000 mg/kg	
CAS: 61788-44-1	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Salicylic acid	LD50 oral	891 mg/kg	Rat
CAS: 69-72-7	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
Phenol, methylstyrenated	LD50 oral	>5000 mg/kg	
CAS: 68512-30-1	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	LD50 oral	>5000 mg/kg	
CAS: 68082-29-1	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	LD50 oral	>5000 mg/kg	
CAS: 186321-96-0	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
benzyl alcohol	LD50 oral	500 mg/kg	Rat
CAS: 100-51-6	LD50 dermal	2500 mg/kg	
	LC50 inhalation	11 mg/L (ATEi)	
2,4,6-tris(dimethylaminomethyl)phenol	LD50 oral	2169 mg/kg	Rat
CAS: 90-72-2	LD50 dermal	1100 mg/kg (ATEi)	
	LC50 inhalation	>20 mg/L	
benzyl alcohol	LD50 oral	500 mg/kg	Rat
CAS: 100-51-6	LD50 dermal	2500 mg/kg	1
	LC50 inhalation	11 mg/L (ATEi)	
3-aminopropyldimethylamine	LD50 oral	1870 mg/kg	Rat
CAS: 109-55-7	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
3-aminopropyltriethoxysilane	LD50 oral	1491 mg/kg	Rat
CAS: 919-30-2	LD50 dermal	4000 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

Identification	Concentration		Species	Genus
2-piperazin-1-ylethylamine	LC50	2190 mg/L (96 h)	Pimephales promelas	Fish
CAS: 140-31-8	EC50	58 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	>1000 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
benzyl alcohol	LC50 646 mg/L (48 h)		Leuciscus idus	Fish
CAS: 100-51-6	EC50	400 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	79 mg/L (3 h)	Scenedesmus subspicatus	Algae
1,3-Cyclohexanedimethanamine	LC50	130 mg/L (96 h)	Leuciscus idus	Fish
CAS: 2579-20-6	EC50	33 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	30 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae



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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Concentration	Species	Genus
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	LC50	7 mg/L (96 h)	Danio rerio	Fish
CAS: 68082-29-1	EC50	7 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	4 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	LC50	1.8 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 186321-96-0	EC50	0.7 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0.77 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
benzyl alcohol	LC50	646 mg/L (48 h)	Leuciscus idus	Fish
CAS: 100-51-6	EC50	400 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	79 mg/L (3 h)	Scenedesmus subspicatus	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
benzyl alcohol	NOEC	48.897 mg/L	N/A	Fish
CAS: 100-51-6	NOEC	51 mg/L	Daphnia magna	Crustacean
benzyl alcohol	NOEC	48.897 mg/L	N/A	Fish
CAS: 100-51-6	NOEC	51 mg/L	Daphnia magna	Crustacean
3-aminopropyldimethylamine	NOEC	Non-applicable		
CAS: 109-55-7	NOEC	3.64 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegrad	lability
2-piperazin-1-ylethylamine	BOD5	Non-applicable	Concentration	30 mg/L
CAS: 140-31-8	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	0 %
Phenol, styrenated	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 61788-44-1	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	7 %
benzyl alcohol	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 100-51-6	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	94 %
1,3-Cyclohexanedimethanamine	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 2579-20-6	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	29 %
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	BOD5	Non-applicable	Concentration	2 mg/L
CAS: 186321-96-0	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	9 %
benzyl alcohol	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 100-51-6	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	94 %
3-aminopropyltriethoxysilane	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 919-30-2	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	67 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential		
2-piperazin-1-ylethylamine	BCF	3	
CAS: 140-31-8	Pow Log	-1.48	
	Potential	Low	



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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bi	Bioaccumulation potential		
benzyl alcohol	BCF	0.3		
CAS: 100-51-6	Pow Log	1.1		
	Potential	Low		
2,4,6-tris(dimethylaminomethyl)phenol	BCF			
CAS: 90-72-2	Pow Log	0.22		
	Potential			
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	BCF	77		
CAS: 68082-29-1	Pow Log			
	Potential	Moderate		
benzyl alcohol	BCF	0		
CAS: 100-51-6	Pow Log	1.1		
	Potential	Low		

12.4 Mobility in soil:

Identification	Absorp	Absorption/desorption		tility
2-piperazin-1-ylethylamine	Koc	37000	Henry	0E+0 Pa·m³/mol
CAS: 140-31-8	Conclusion	Immobile	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
benzyl alcohol	Koc	Non-applicable	Henry	Non-applicable
CAS: 100-51-6	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	3.679E-2 N/m (25 °C)	Moist soil	Non-applicable
1,3-Cyclohexanedimethanamine	Koc	30	Henry	Non-applicable
CAS: 2579-20-6	Conclusion	Very High	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
Salicylic acid	Koc	Non-applicable	Henry	Non-applicable
CAS: 69-72-7	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2.444E-2 N/m (207.25 °C)	Moist soil	Non-applicable
benzyl alcohol	Koc	Non-applicable	Henry	Non-applicable
CAS: 100-51-6	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	3.679E-2 N/m (25 °C)	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

Canadian Environmental Protection Act, 1999

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to Transportation of Dangerous Goods Regulations including Amendment SOR/2017-100



FLO-ROK CRACKFAST RESIN (CFR) | Part B

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

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SECTION 14: TRANSPORT INFORMATION (continued)





14.1 UN number: UN2735

14.2 United Nations proper AMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine;

shipping name: Phenol, styrenated)

14.3 Transport hazard class(es): 8
Labels: 8
14.4 Packing group: ||

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection

with transport or conveyance either within or outside their premises

Yes

Physico-Chemical properties: see section 9

4.7 Transport in bulk (according to Non-applicable Annex II of MARPOL 73/78 and

the IBC Code):

14.5 Environmental hazard:

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

14.1 UN number: UN2735

14.2 United Nations proper AMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine;

shipping name: Phenol, styrenated)

14.3 Transport hazard class(es): 8
Labels: 8
14.4 Packing group: ||

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection

with transport or conveyance either within or outside their premises

Yes

Special regulations: 274

EmS Codes: F-A, S-B

Physico-Chemical properties: see section 9

Limited quantities: 1 L

Limited quantities: 1 L
Segregation group: SGG18

14.7 Transport in bulk (according to Non-applicable

Annex II of MARPOL 73/78 and

the IBC Code):

14.5 Marine pollutant:

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:





14.1 UN number: UN2735

14.2 United Nations proper AMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine;

shipping name: Phenol, styrenated)

14.3 Transport hazard class(es): 8
Labels: 8
14.4 Packing group: II
14.5 Environmental hazard: Yes

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection

with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Transport in bulk (according to Non-applicable

Annex II of MARPOL 73/78 and

the IBC Code):

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:



FLO-ROK CRACKFAST RESIN (CFR) | Part B

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

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SECTION 15: REGULATORY INFORMATION (continued)

- Domestic Substances List (DSL): Phenol, methylstyrenated (68512-30-1); 2-piperazin-1-ylethylamine (140-31-8); Phenol, styrenated (61788-44-1); benzyl alcohol (100-51-6); 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2);
- 1,3-Cyclohexanedimethanamine (2579-20-6); Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1); Salicylic acid (69-72-7); benzyl alcohol (100-51-6); 3-aminopropyldimethylamine (109-55-7); 3-aminopropyltriethoxysilane (919-30-2)
- Non-Domestic Substances List (NDSL): Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine (186321-96-0)

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Canadian Environmental Protection Act, 1999

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Part 4 and Schedule I of the Hazardous Products Regulations (SOR/2015-17)

Texts of the legislative phrases mentioned in section 2:

- H314: Causes severe skin burns and eye damage.
- H317: May cause an allergic skin reaction.
- H361: Suspected of damaging fertility or the unborn child.
- H372: Causes damage to organs through prolonged or repeated exposure.
- H302+H312: Harmful if swallowed or in contact with skin.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

WHMIS 2015:

Acute Tox. 3: H311 - Toxic in contact with skin.

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin.

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Repr. 2: H361 - Suspected of damaging fertility or the unborn child.

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure.

STOT SE 3: H335 - May cause respiratory irritation.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://whmis.org/

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer



FLO-ROK CRACKFAST RESIN (CFR) | Part B

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR \S 1910.1200.

Date of compilation: 2022-12-15 Revised: 2023-01-04 Version: 3 (Replaced 2)

SECTION 16: OTHER INFORMATION (continued)

Date of compilation: 2022-12-15

Revised: 2023-01-04

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.



FLO-ROK CRACKFAST SEAL (CFS) | Part A

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-16 Revised: 2023-01-04 Version: 2 (Replaced 1)

SECTION 1: IDENTIFICATION

1.1 Product identifier: CRACKFAST SEAL (CFS) | Part A

Other means of identification:

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Adhesive for construction

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Initial supplier identifier:

UCAN Fastening Products

155 Champagne Drive, Unit 10, Toronto, Ontario, M3J 2C6 Phone: (416) 631-9400 Fax: (416) 631-9426 Toll Free: CAD 1-800-268-1248 | USA 1-800-461-8226

Web: www.ucanfast.com

Contact person: Balwant K. Arjune | (416) 631-9400 Ex. 252

1.4 Emergency phone number: CHEMTREC 1-800-424-9300 | 1-703-527-3887 (24 hr. Emergency)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture:

Not irritating.On basis of test data.OECD Test No. 439The product is not flammable.On basis of test data.UN Test N.1 and ASTM D4359-90

WHMIS 2015:

The product is not classified as dangerous according to Part 2 of Hazardous Products Regulations (SOR/2015-17)

2.2 Label elements:

WHMIS 2015:

Hazard statements:

Non-applicable

Precautionary statements:

P273: Avoid release to the environment.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P501: Dispose of contents/ container in accordance with local/regional/national/international regulation.

2.3 Health and physical hazards not otherwise classified (HHNOC - PHNOC):

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Mixture composed of additives, pigments and resins

Components:

In accordance with Schedule I of the Hazardous Products Regulations (SOR/2015-17), the product contains:

l		Identification	Chemical name/Classification	
	CAS:	25013-15-4	/inyltoluene Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Warning	
	CAS:	3077-12-1	,2'-[(4-methylphenyl)imino]bisethanol .cute Tox. 4: H302; Eye Dam. 1: H318; Skin Sens. 1: H317 - Danger	

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES



FLO-ROK CRACKFAST SEAL (CFS) | Part A

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-16 Revised: 2023-01-04 Version: 2 (Replaced 1)

SECTION 4: FIRST-AID MEASURES (continued)

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or shower the person affected if necessary thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.



FLO-ROK CRACKFAST SEAL (CFS) | Part A

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-16 Revised: 2023-01-04 Version: 2 (Replaced 1)

SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

British Columbia - Occupational Health and Safety Regulation section 5.48 (Updated March 1, 2022):

Identification	Occup	ational exposure limits
Vinyltoluene	TLV-TWA	25 ppm
CAS: 25013-15-4	TLV-STEL	75 ppm

ALBERTA - Occupational Health and Safety Code:

Identification	Occupa	ational exposure lir	mits
Vinyltoluene	8-hour	50 ppm	242 mg/m³
CAS: 25013-15-4	15-minute	100 ppm	483 mg/m³

BRITISH COLUMBIA >> Particles (Insoluble or Poorly Soluble) Not Otherwise Classified (PNOC): TWA = 10 mg/m3

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.



FLO-ROK CRACKFAST SEAL (CFS) | Part A

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using chemical protection gloves

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration.
	Anti-slip work shoes	Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
^+	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	-	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds (VOC) according to Canadian Environmental Protection Act, 1999:

Volatile organic compounds: 13.89 % weight V.O.C. density at 20 °C: Non-applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:

Appearance:

Color:

Odor:

Odour threshold:

Solid

Paste

Cream

Aromatic

Non-applicable *

Volatility:

*Not relevant due to the nature of the product, not providing information property of its hazards.



FLO-ROK CRACKFAST SEAL (CFS) | Part A

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

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SECTION 9: PHYSICAL	AND CHEMICAL	PROPERTIES	(continued)

Boiling point at atmospheric pressure: Non-applicable *

Vapour pressure at 20 °C:

Vapour pressure at 50 °C:

Non-applicable *

Non-applicable *

Evaporation rate at 20 °C: Non-applicable *

Product description:

Density at 20 °C: Non-applicable *

Relative density at 20 °C: 1.6

Dynamic viscosity at 20 °C:

Kinematic viscosity at 20 °C:

Kinematic viscosity at 40 °C:

Concentration:

PH:

Non-applicable *

Non-applicable *

Non-applicable *

Non-applicable *

Non-applicable *

Partition coefficient n-octanol/water 20 °C:

Solubility in water at 20 °C:

Non-applicable *

Flammability:

Flash Point: Non-applicable
Flammability (solid, gas): Non-applicable *

Autoignition temperature: 515 °C

Lower flammability limit: Non-applicable * Upper flammability limit: Non-applicable *

Explosive (Solid):

Lower explosive limit:

Upper explosive limit:

Non-applicable *

Non-applicable *

Particle characteristics:

Median equivalent diameter: Non-applicable *

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Non-applicable *
Oxidising properties: Non-applicable *
Corrosive to metals: Non-applicable *
Heat of combustion: Non-applicable *
Aerosols-total percentage (by mass) of flammable Non-applicable *

components:

Surface tension at 20 °C:

Refraction index:

Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

Other safety characteristics:

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.



FLO-ROK CRACKFAST SEAL (CFS) | Part A

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-16 Revised: 2023-01-04 Version: 2 (Replaced 1)

SECTION 10: STABILITY AND REACTIVITY (continued)

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
 - Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: Hydroquinone (3); Vinyltoluene (3); Titanium dioxide (2B)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:



FLO-ROK CRACKFAST SEAL (CFS) | Part A

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acı	te toxicity	Genus
Vinyltoluene	LD50 oral	>5000 mg/kg	Rat
CAS: 25013-15-4	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	1.5 mg/L (ATEi)	
2,2'-[(4-methylphenyl)imino]bisethanol	LD50 oral	>5000 mg/kg	
CAS: 3077-12-1	LD50 dermal	1100 mg/kg	
	LC50 inhalation	>5 mg/L	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

Identification	Concentration		Species	Genus
Vinyltoluene	LC50	7.6 mg/L (96 h)	Salmo gairdneri	Fish
CAS: 25013-15-4	EC50	1.3 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	2.6 mg/L (72 h)	Selenastrum capricornutum	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
Vinyltoluene	NOEC	1.16 mg/L	N/A	Fish
CAS: 25013-15-4	NOEC	0.32 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential		
Vinyltoluene	BCF	5	
CAS: 25013-15-4	Pow Log	3.44	
	Potential	Low	

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Vinyltoluene	Koc	Non-applicable	Henry	Non-applicable
CAS: 25013-15-4	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	3 2F-2 N/m (20 °C)	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

Non-applicable



FLO-ROK CRACKFAST SEAL (CFS) | Part A

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-16 Revised: 2023-01-04 Version: 2 (Replaced 1)

SECTION 12: ECOLOGICAL INFORMATION (continued)

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

Canadian Environmental Protection Act, 1999

SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

- Domestic Substances List (DSL): Vinyltoluene (25013-15-4); 2,2'-[(4-methylphenyl)imino]bisethanol (3077-12-1)
- Non-Domestic Substances List (NDSL): Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Canadian Environmental Protection Act, 1999

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Part 4 and Schedule I of the Hazardous Products Regulations (SOR/2015-17)

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

WHMIS 2015:

Acute Tox. 4: H302 - Harmful if swallowed.

Eye Dam. 1: H318 - Causes serious eye damage.

Flam. Lig. 3: H226 - Flammable liquid and vapour.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://whmis.org/

Abbreviations and acronyms:



FLO-ROK CRACKFAST SEAL (CFS) | Part A

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR \S 1910.1200.

Date of compilation: 2022-12-16 Revised: 2023-01-04 Version: 2 (Replaced 1)

SECTION 16: OTHER INFORMATION (continued)

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

Date of compilation: 2022-12-16

Revised: 2023-01-04

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.



FLO-ROK CRACKFAST SEAL (CFS) | Part B

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-14 Revised: 2023-01-04 Version: 3 (Replaced 2)

SECTION 1: IDENTIFICATION

1.1 Product identifier: CRACKFAST SEAL (CFS) | Part B

Other means of identification:

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Adhesive for construction

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Initial supplier identifier:

UCAN Fastening Products

155 Champagne Drive, Unit 10, Toronto, Ontario, M3J 2C6 Phone: (416) 631-9400 Fax: (416) 631-9426 Toll Free: CAD 1-800-268-1248 | USA 1-800-461-8226

Web: www.ucanfast.com

Contact person: Balwant K. Arjune | (416) 631-9400 Ex. 252

1.4 Emergency phone number: CHEMTREC 1-800-424-9300 | 1-703-527-3887 (24 hr. Emergency)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture:

WHMIS 2015:

Classification of this product has been carried out in accordance with Part 2 of Hazardous Products Regulations (SOR/2015-17)

Eye Irrit. 2: Eye irritation, Category 2, H319

Skin Sens. 1: Sensitisation, skin, Category 1, H317

2.2 Label elements:

WHMIS 2015:

Warning



Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Precautionary statements:

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P501: Dispose of contents/ container in accordance with local/regional/national/international regulation.

2.3 Health and physical hazards not otherwise classified (HHNOC - PHNOC):

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Mixture composed of additives, pigments and resins

Components:

In accordance with Schedule I of the Hazardous Products Regulations (SOR/2015-17), the product contains:



FLO-ROK CRACKFAST SEAL (CFS) | Part B

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-14 Revised: 2023-01-04 Version: 3 (Replaced 2)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

	Identification	Chemical name/Classification	
CAS:	94-36-0	Dibenzoyl peroxide Eye Irrit. 2: H319; Org. Perox. B: H241; Skin Sens. 1: H317 - Danger	10 - <30 %
CAS:	1333-86-4	Carbon black Carc. 2: H351 - Warning	<1 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

Identification	M-factor	
Dibenzoyl peroxide	Acute	10
CAS: 94-36-0	Chronic	10

Identification	Specific concentration limit
Dibenzoyl peroxide	% (w/w) >=52: Org. Perox. B - H241
CAS: 94-36-0	35<= % (w/w) <52: Org. Perox. D - H242

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

May cause an allergic skin reaction. In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

In case of consumption, seek immediate medical assistance showing the SDS of this product.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:



FLO-ROK CRACKFAST SEAL (CFS) | Part B

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-14 Revised: 2023-01-04 Version: 3 (Replaced 2)

SECTION 5: FIRE-FIGHTING MEASURES (continued)

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:



FLO-ROK CRACKFAST SEAL (CFS) | Part B

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-14 Revised: 2023-01-04 Version: 3 (Replaced 2)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

British Columbia - Occupational Health and Safety Regulation section 5.48 (Updated March 1, 2022):

Identification Occupational exposure limits		nits	
Dibenzoyl peroxide	TLV-TWA		5 mg/m³
CAS: 94-36-0	TLV-STEL		
Carbon black	TLV-TWA		3 mg/m³
CAS: 1333-86-4	TLV-STEL		

ALBERTA - Occupational Health and Safety Code:

Identification	Occupational exposure limits		
Dibenzoyl peroxide	8-hour		5 mg/m³
CAS: 94-36-0	15-minute		
Carbon black	8-hour		3.5 mg/m ³
CAS: 1333-86-4	15-minute		

BRITISH COLUMBIA >> Particles (Insoluble or Poorly Soluble) Not Otherwise Classified (PNOC): TWA = 10 mg/m3

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using chemical protection gloves

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection

Pictogram	PPE	Remarks	
	Work clothing	Replace before any evidence of deterioration.	
	Anti-slip work shoes	Replace before any evidence of deterioration.	

F.- Additional emergency measures



FLO-ROK CRACKFAST SEAL (CFS) | Part B

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-14 Revised: 2023-01-04 Version: 3 (Replaced 2)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Emergency measure	Standards	Emergency measure	Standards
^ +	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	+	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds (VOC) according to Canadian Environmental Protection Act, 1999:

Volatile organic compounds: 0 % weight V.O.C. density at 20 °C: 0 kg/m³ (0 g/L)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C: Solid
Appearance: Paste
Color: Black

Odor: Characteristic
Odour threshold: Non-applicable *

Volatility:

Boiling point at atmospheric pressure:

Vapour pressure at 20 °C:

Vapour pressure at 50 °C:

Non-applicable *

Non-applicable *

Evaporation rate at 20 °C:

Non-applicable *

Product description:

Density at 20 °C: Non-applicable *

Relative density at 20 °C: 1.55

Dynamic viscosity at 20 °C:

Kinematic viscosity at 20 °C:

Kinematic viscosity at 40 °C:

Concentration:

Partition coefficient n-octanol/water 20 °C:

Non-applicable *

Non-applicable *

Non-applicable *

Non-applicable *

Non-applicable *

Solubility in water at 20 °C:

Solubility properties:

Non-applicable *

Miscible

Decomposition temperature: Non-applicable *
Melting point/freezing point: Non-applicable *

Flammability:

Flash Point: Non-applicable
Flammability (solid, gas): Non-applicable *

Autoignition temperature: 435 °C

Lower flammability limit: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.



FLO-ROK CRACKFAST SEAL (CFS) | Part B

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-14 Revised: 2023-01-04 Version: 3 (Replaced 2)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Upper flammability limit: Non-applicable *

Explosive (Solid):

Lower explosive limit:

Upper explosive limit:

Non-applicable *

Non-applicable *

Particle characteristics:

Median equivalent diameter: Non-applicable *

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:

Oxidising properties:

Corrosive to metals:

Heat of combustion:

Aerosols-total percentage (by mass) of flammable

Non-applicable *

Non-applicable *

Non-applicable *

components:

Other safety characteristics:

Surface tension at 20 °C:

Refraction index:

Non-applicable *

Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Heating may cause a fire or explosion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Precaution	Avoid alkalines, heavy metals, reducing agents, peroxide accelerating agents

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:



FLO-ROK CRACKFAST SEAL (CFS) | Part B

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-14 Revised: 2023-01-04 Version: 3 (Replaced 2)

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for skin contact. For more information see section 3.
 - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.

IARC: Glass, oxide, chemicals (1); Carbon black (2B); Dibenzoyl peroxide (3)

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - · Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Ac	Acute toxicity	
Dibenzoyl peroxide	LD50 oral	7710 mg/kg	Rat
CAS: 94-36-0	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
Carbon black	LD50 oral	>5000 mg/kg	
CAS: 1333-86-4	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:



FLO-ROK CRACKFAST SEAL (CFS) | Part B

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR \S 1910.1200.

Date of compilation: 2022-12-14 Revised: 2023-01-04 Version: 3 (Replaced 2)

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Concentration	Species	Genus
Dibenzoyl peroxide	LC50	0.0602 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 94-36-0	EC50	0.11 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0.071 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Carbon black	LC50	1000 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 1333-86-4	EC50	5600 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Dibenzoyl peroxide	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 94-36-0	COD	Non-applicable	Period	10 days
	BOD5/COD	Non-applicable	% Biodegradable	68 %

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Dibenzoyl peroxide	Koc	6309.57	Henry	Non-applicable
CAS: 94-36-0	Conclusion	Immobile	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

Canadian Environmental Protection Act, 1999

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to Transportation of Dangerous Goods Regulations including Amendment SOR/2017-100



FLO-ROK CRACKFAST SEAL (CFS) | Part B

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-14 Revised: 2023-01-04 Version: 3 (Replaced 2)

SECTION 14: TRANSPORT INFORMATION (continued)



UN3077 14.1 **UN number:**

United Nations proper ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 14.2

shipping name: (Dibenzoyl peroxide)

14.3 Transport hazard class(es): 9 Labels: 14.4 Packing group: Ш

14.5 Environmental hazard: Special precautions which a user needs to be aware of, or needs to comply with, in connection 14.6

with transport or conveyance either within or outside their premises

Yes

Physico-Chemical properties: see section 9

Transport in bulk (according to Non-applicable

Annex II of MARPOL 73/78 and

the IBC Code):

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

14.1 **UN number:** UN3077

United Nations proper ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

shipping name: (Dibenzoyl peroxide)

Transport hazard class(es): 9 9 Labels: Ш 14.4 Packing group:

14.5 Marine pollutant: Yes

Special precautions which a user needs to be aware of, or needs to comply with, in connection

with transport or conveyance either within or outside their premises

335, 966, 274, 967, 969 Special regulations:

EmS Codes: F-A. S-F Physico-Chemical properties: see section 9

Limited quantities: 5 kg

Segregation group: Non-applicable 14.7 Transport in bulk (according to Non-applicable

Annex II of MARPOL 73/78 and

the IBC Code):

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:



UN number: UN3077

United Nations proper ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

shipping name: (Dibenzoyl peroxide)

14.3 Transport hazard class(es): Labels: 9 14.4 Ш Packing group: 14.5 Environmental hazard: Yes

Special precautions which a user needs to be aware of, or needs to comply with, in connection

with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Transport in bulk (according to Non-applicable

Annex II of MARPOL 73/78 and

the IBC Code):

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

- Domestic Substances List (DSL): Dibenzoyl peroxide (94-36-0); Carbon black (1333-86-4)

- Non-Domestic Substances List (NDSL): Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.



FLO-ROK CRACKFAST SEAL (CFS) | Part B

According to WHMIS 2015 and Appendix D, OSHA Hazard Communication Standard 29 CFR § 1910.1200.

Date of compilation: 2022-12-14 Revised: 2023-01-04 Version: 3 (Replaced 2)

SECTION 15: REGULATORY INFORMATION (continued)

Other legislation:

Canadian Environmental Protection Act, 1999

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Part 4 and Schedule I of the Hazardous Products Regulations (SOR/2015-17)

Texts of the legislative phrases mentioned in section 2:

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

WHMIS 2015:

Carc. 2: H351 - Suspected of causing cancer.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Org. Perox. B: H241 - Heating may cause a fire or explosion.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://whmis.org/

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

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