

# **FLO – ROK CRACKFAST (SDS)**

**CRACKFAST SEAL (PART A AND B) PAGE 2 TO 20**

**CRACKFAST RESIN (PART A AND B) PAGE 21 TO 47**



## SAFETY DATA SHEET FLO-ROK CRACKFAST SEAL | PART A

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

### 1. Identification

#### Product identifier

Product name CRACKFAST SEAL | PART A

#### Recommended use of the chemical and restrictions on use

Application Resin.

#### Details of the supplier of the safety data sheet

Supplier UCAN Fastening Products  
155 Champagne Drive, Unit 10  
Toronto, Ontario, M3J 2C6  
Tel.: 416-631-9400 | Fax: 416-631-9426 | Email: sales@ucanfast.com  
Toll Free: CAD 1-800-268-1248 | USA 1-800-461-8226

Web [www.ucanfast.com](http://www.ucanfast.com)

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

#### Emergency telephone number

Emergency telephone CHEMTRAC 800-424-9300 (24 hr. Emergency)

### 2. Hazard(s) identification

#### Classification of the substance or mixture

Physical hazards Flam. Liq. 3 - H226

Health hazards Not Classified

#### Label elements

##### Pictogram



Signal word Warning

Hazard statements H226 Flammable liquid and vapor.

## FLO-ROK CRACKFAST SEAL | PART A

<b>Precautionary statements</b>	<p>P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 If on skin: Wash with plenty of water.</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
<b>Labeling notes</b>	<p>Not classified for health hazards.: On basis of test data.</p> <p>OECD Test No. 439</p>

### 3. Composition/information on ingredients

#### Mixtures

VINYL TOLUENE	10-20%
CAS number: 25013-15-4	

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
<b>Skin Contact</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Rinse immediately with plenty of water. Show this Safety Data Sheet to the medical personnel.

#### Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	May cause respiratory irritation.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	May cause skin irritation/eczema.
<b>Eye contact</b>	May irritate eyes.

#### Indication of immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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### 5. Fire-fighting measures

#### Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide or dry powder.
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#### Special hazards arising from the substance or mixture

<b>Specific hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Oxides of carbon.

#### Advice for firefighters

## FLO-ROK CRACKFAST SEAL | PART A

**Protective actions during firefighting** Avoid breathing fire gases or vapors.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** No smoking, sparks, flames or other sources of ignition near spillage.

#### Environmental precautions

**Environmental precautions** Avoid release to the environment.

#### Methods and material for containment and cleaning up

**Methods for cleaning up** Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

**Reference to other sections** For waste disposal, see Section 13.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Do not use in confined spaces without adequate ventilation and/or respirator.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from oxidizing materials, heat and flames.

**Storage class** Chemical storage.

#### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

### 8. Exposure controls/Personal protection

#### Control parameters

#### Occupational exposure limits

#### VINYL TOLUENE

Long-term exposure limit (8-hour TWA): OSHA 100 ppm 480 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): ACGIH 50 ppm 242 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 100 ppm 483 mg/m<sup>3</sup>

A4

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

#### Exposure controls

#### Protective equipment



**Appropriate engineering controls**

Provide adequate ventilation. Avoid inhalation of vapors. Observe any occupational exposure limits for the product or ingredients.

**Eye/face protection**

The following protection should be worn: Chemical splash goggles.

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<b>Hand protection</b>	It is recommended that chemical-resistant, impervious gloves are worn.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Hygiene measures</b>	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	No specific recommendations.
<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid
<b>Color</b>	Beige.
<b>Odor</b>	Aromatic.
<b>Odor threshold</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	>165°C @
<b>Flash point</b>	53°C
<b>Evaporation rate</b>	Not determined.
<b>Evaporation factor</b>	Not determined.
<b>Flammability (solid, gas)</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Other flammability</b>	Not determined.
<b>Vapor pressure</b>	6 hPa @ 20°C
<b>Vapor density</b>	Not determined.
<b>Relative density</b>	1.65 - 1.75 @ 20°C
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Insoluble in water
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	> 60 S ISO2431
<b>Explosive properties</b>	No information available.
<b>Oxidizing properties</b>	Does not meet the criteria for classification as oxidizing.

## FLO-ROK CRACKFAST SEAL | PART A

### 10. Stability and reactivity

<b>Reactivity</b>	The following materials may react with the product: Organic peroxides/hydroperoxides.
<b>Stability</b>	Stable at normal ambient temperatures.
<b>Possibility of hazardous reactions</b>	Does not decompose when used and stored as recommended.
<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
<b>Materials to avoid</b>	Organic peroxides/hydroperoxides.
<b>Hazardous decomposition products</b>	Oxides of carbon.

### 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 79.18

#### Skin corrosion/irritation

Skin corrosion/irritation Not irritating. OECD Test No. 439

#### Serious eye damage/irritation

Serious eye damage/irritation Not irritating. OECD Test No. 439

#### Inhalation

Gas or vapor in high concentrations may irritate the respiratory system.

#### Ingestion

May cause discomfort if swallowed.

#### Skin Contact

May cause skin irritation.

#### Eye contact

May irritate eyes.

#### Toxicological information on ingredients.

#### VINYL TOLUENE

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 2,255.0

Species Rat

ATE oral (mg/kg) 2,255.0

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 4,500.0

Species Rat

ATE dermal (mg/kg) 4,500.0

#### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 11.0

## FLO-ROK CRACKFAST SEAL | PART A

### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

## 12. Ecological information

### Ecological information on ingredients.

#### VINYL TOLUENE

##### Acute aquatic toxicity

**Acute toxicity - fish** LC50, 96 hours: 23.4 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 1.3 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 2.6 mg/l, Selenastrum capricornutum

### Bioaccumulative potential

**Bio-Accumulative Potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

### Ecological information on ingredients.

#### VINYL TOLUENE

**Partition coefficient** log Pow: 3.36

### Mobility in soil

**Mobility** Not applicable.

### Other adverse effects

**Other adverse effects** Not applicable.

## 13. Disposal considerations

### Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations

**Disposal methods** Dispose of waste via a licensed waste disposal contractor.

## 14. Transport information

### UN Number

**UN No. (TDG)** 1866

**UN No. (IMDG)** 1866

**UN No. (ICAO)** 1866

**UN No. (DOT)** UN1866

### UN proper shipping name

**Proper shipping name (TDG)** RESIN SOLUTION

**Proper shipping name (IMDG)** RESIN SOLUTION

**Proper shipping name (ICAO)** RESIN SOLUTION

**Proper shipping name (DOT)** RESIN SOLUTION

**FLO-ROK CRACKFAST SEAL | PART A****Transport hazard class(es)**

DOT hazard class	3
DOT hazard label	3
TDG class	3
TDG label(s)	3
IMDG Class	3
ICAO class/division	3

**Transport labels****DOT transport labels****Packing group**

TDG Packing Group	III
IMDG packing group	III
ICAO packing group	III
DOT packing group	III

**Environmental hazards****Environmentally Hazardous Substance**

No.

**Special precautions for user**

EmS	F-E, S-E
DOT reportable quantity	RQ: Hydroquinone (1223720.6001 lbs)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

**15. Regulatory information****US Federal Regulations****SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed or exempt.

**CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

None of the ingredients are listed or exempt.

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed or exempt.

**SARA 313 Emission Reporting**

None of the ingredients are listed or exempt.



## FLO-ROK CRACKFAST SEAL | PART A

### **CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

### **FDA - Essential Chemical**

None of the ingredients are listed or exempt.

### **FDA - Precursor Chemical**

None of the ingredients are listed or exempt.

### **OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

### **US State Regulations**

**State Regulations Comments** Some of the ingredients are listed or exempt.

### **California Proposition 65 Carcinogens and Reproductive Toxins**

The following ingredients are listed or exempt:

#### **California Air Toxics "Hot Spots" (A-I)**

The following ingredients are listed or exempt:

#### **California Air Toxics "Hot Spots" (A-II)**

None of the ingredients are listed or exempt.

#### **California Directors List of Hazardous Substances**

The following ingredients are listed or exempt:

#### **Massachusetts "Right To Know" List**

The following ingredients are listed or exempt:

#### **Rhode Island "Right To Know" List**

The following ingredients are listed or exempt:

#### **Minnesota "Right To Know" List**

The following ingredients are listed or exempt:

#### **New Jersey "Right To Know" List**

The following ingredients are listed or exempt:

#### **Pennsylvania "Right To Know" List**

The following ingredients are listed or exempt:

### **Inventories**

#### **Canada - DSL/NDSL**

The following ingredients are listed or exempt:

**US - TSCA** All the ingredients are listed or exempt.

## FLO-ROK CRACKFAST SEAL | PART A

### 16. Other information

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	14/03/2019
<b>Version number</b>	2.001
<b>Supersedes date</b>	23/03/2016
<b>SDS No.</b>	20848
<b>Hazard statements in full</b>	H226 Flammable liquid and vapor.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



**FASTENING PRODUCTS**

## SAFETY DATA SHEET FLO-ROK CRACKFAST SEAL | PART B

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

### 1. Identification

#### Product identifier

**Product name** CRACKFAST SEAL | PART B

#### Recommended use of the chemical and restrictions on use

**Application** Catalyst.

#### Details of the supplier of the safety data sheet

**Supplier** UCAN Fastening Products  
155 Champagne Drive, Unit 10  
Toronto, Ontario, M3J 2C6  
Tel.: 416-631-9400 | Fax: 416-631-9426 | Email: sales@ucanfast.com  
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

#### Emergency telephone number

**Emergency telephone** CHEMTRAC 800-424-9300 (24 hr. Emergency)

### 2. Hazard(s) identification

#### Classification of the substance or mixture

**Physical hazards** Not Classified

**Health hazards** Eye Irrit. 2A - H319 Skin Sens. 1 - H317

**Human health** May cause skin disorders if contact is repeated or prolonged. May irritate eyes and skin.

**Environmental** The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

**Physicochemical** Not considered to be a significant hazard due to the small quantities used.

#### Label elements

##### Pictogram



**Signal word** Warning

**Hazard statements** H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

## FLO-ROK CRACKFAST SEAL | PART B

<b>Precautionary statements</b>	<p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 If on skin: Wash with plenty of water.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p> <p>P264 Wash skin thoroughly after handling.</p> <p>P273 Avoid release to the environment.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P411 Store at temperatures not exceeding 25°C /77°F.</p>
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**Contains** BENZOYL PEROXIDE

### 3. Composition/information on ingredients

#### Mixtures

<b>GLYCERINE</b>	<b>20-50%</b>
CAS number: 56-81-5	
<b>BENZOYL PEROXIDE</b>	<b>10-15%</b>
CAS number: 94-36-0	
<b>BENZOIC ACID,NONYL ESTER,BRANCHED AND LINEAR</b>	<b>1-5%</b>
CAS number: 670241-72-2	
<b>ZINC DISTEARATE</b>	<b>1-5%</b>
CAS number: 557-05-1	
<b>CARBON BLACK</b>	<b>&lt;0.5%</b>
CAS number: 1333-86-4	

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
<b>Skin Contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

#### Most important symptoms and effects, both acute and delayed

<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Irritation of eyes and mucous membranes.

## FLO-ROK CRACKFAST SEAL | PART B

### Indication of immediate medical attention and special treatment needed

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media** Extinguish with foam, carbon dioxide or dry powder.

#### Special hazards arising from the substance or mixture

**Specific hazards** No specific precautions due to the small quantities handled.

**Hazardous combustion products** Oxides of carbon.

#### Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapors.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

#### Environmental precautions

**Environmental precautions** Avoid release to the environment.

#### Methods and material for containment and cleaning up

**Methods for cleaning up** Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Keep away from heat, sparks and open flame.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep away from flammable and combustible materials. Store in closed original container at temperatures between 44°F and 77°F.

**Storage class** Chemical storage.

#### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

### 8. Exposure controls/Personal protection

#### Control parameters

#### Occupational exposure limits

## FLO-ROK CRACKFAST SEAL | PART B

### GLYCERINE

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m<sup>3</sup> respirable fraction

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m<sup>3</sup> total dust

### BENZOYL PEROXIDE

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m<sup>3</sup>

A4

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m<sup>3</sup>

### CARBON BLACK

Long-term exposure limit (8-hour TWA): OSHA 3.5 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): ACGIH 3 mg/m<sup>3</sup> inhalable fraction

A3

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

### Exposure controls

#### Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles.

Hand protection

Wear protective gloves made of the following material: Nitrile rubber.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. DO NOT SMOKE IN WORK AREA!

Respiratory protection

No specific recommendations.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Liquid
Color	Black.
Odor	Characteristic.
Odor threshold	Not determined.
pH	5 - 6
Melting point	Not applicable.
Initial boiling point and range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not determined.

## FLO-ROK CRACKFAST SEAL | PART B

<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Other flammability</b>	Not determined.
<b>Vapor pressure</b>	Not determined.
<b>Vapor density</b>	Not determined.
<b>Relative density</b>	1.5 - 1.6
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Not determined.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	>50°C
<b>Viscosity</b>	> 60 S ISO2431
<b>Explosive properties</b>	No information available.
<b>Oxidizing properties</b>	Not determined.

### 10. Stability and reactivity

<b>Reactivity</b>	The following materials may react with the product: Acids. Alkalis. Amines. Strong reducing agents.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Will decompose at temperatures exceeding 50°C.
<b>Possibility of hazardous reactions</b>	Will not polymerize.
<b>Conditions to avoid</b>	Avoid contact with strong reducing agents. Avoid heat. Avoid contact with acids and alkalis.
<b>Materials to avoid</b>	Strong reducing agents. Acids, non-oxidizing. Acids - organic. Alkalis - inorganic. Alkalis - organic. Amines.
<b>Hazardous decomposition products</b>	Oxides of carbon.

### 11. Toxicological information

#### Information on toxicological effects

##### Skin sensitization

**Skin sensitization** Sensitizing.

**Inhalation** No specific health hazards known.

**Ingestion** May cause discomfort if swallowed.

**Skin Contact** Irritating to skin. May cause sensitisation by skin contact.

**Eye contact** Irritation of eyes and mucous membranes.

**Route of exposure** Skin and/or eye contact.

**FLO-ROK CRACKFAST SEAL | PART B**

**Medical Symptoms** Skin irritation. Irritation of eyes and mucous membranes.

**Medical considerations** No information available.

**12. Ecological information****Persistence and degradability**

**Persistence and degradability** There are no data on the degradability of this product.

**Bioaccumulative potential**

**Bio-Accumulative Potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

**Mobility in soil**

**Mobility** Mobile. The product is partly miscible with water and may spread in the aquatic environment.

**13. Disposal considerations****Waste treatment methods**

**General information** Dispose of waste product or used containers in accordance with local regulations

**Disposal methods** Dispose of waste via a licensed waste disposal contractor.

**14. Transport information****UN Number**

**UN No. (TDG)** 3082

**UN No. (IMDG)** 3082

**UN No. (ICAO)** 3082

**UN No. (DOT)** UN3082

**UN proper shipping name**

**Proper shipping name (TDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BENZOYL PEROXIDE, BENZOIC ACID,NONYL ESTER,BRANCHED AND LINEAR)

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BENZOYL PEROXIDE, BENZOIC ACID,NONYL ESTER,BRANCHED AND LINEAR)

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BENZOYL PEROXIDE, BENZOIC ACID,NONYL ESTER,BRANCHED AND LINEAR)

**Proper shipping name (DOT)** ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS BENZOYL PEROXIDE, BENZOIC ACID,NONYL ESTER,BRANCHED AND LINEAR)

**Transport hazard class(es)**

**DOT hazard class** 9

**DOT hazard label** 9

**TDG class** 9

**TDG label(s)** 9

**IMDG Class** 9

**ICAO class/division** 9



**FLO-ROK CRACKFAST SEAL | PART B****Transport labels****DOT transport labels****Packing group**

**TDG Packing Group** III

**IMDG packing group** III

**ICAO packing group** III

**DOT packing group** III

**Environmental hazards****Environmentally Hazardous Substance****Special precautions for user**

**EmS** F-A, S-F

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**15. Regulatory information****US Federal Regulations****SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed or exempt.

***GLYCERINE***

Not listed.

20-50%

***ZINC DISTEARATE***

Not listed.

1-5%

**CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

None of the ingredients are listed or exempt.

***GLYCERINE***

Not listed.

20-50%

***ZINC DISTEARATE***

Not listed.

1-5%

## FLO-ROK CRACKFAST SEAL | PART B

### SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

### SARA 313 Emission Reporting

The following ingredients are listed or exempt:

#### *ZINC DISTEARATE*

1.0 %

1-5%

#### *BENZOYL PEROXIDE*

1.0 %

10-15%

### CAA Accidental Release Prevention

None of the ingredients are listed or exempt.

#### *GLYCERINE*

Not listed.

20-50%

#### *ZINC DISTEARATE*

Not listed.

1-5%

### FDA - Essential Chemical

None of the ingredients are listed or exempt.

### FDA - Precursor Chemical

None of the ingredients are listed or exempt.

### OSHA Highly Hazardous Chemicals

The following ingredients are listed or exempt:

#### *BENZOYL PEROXIDE*

Threshold Quantity: 7500 lbs

10-15%

### US State Regulations

#### California Proposition 65 Carcinogens and Reproductive Toxins

The following ingredients are listed or exempt:

#### *GLYCERINE*

Not listed.

#### *ZINC DISTEARATE*

Not listed.

#### California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed or exempt:

#### *BENZOYL PEROXIDE*

Present.

10-15%

#### California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

### California Directors List of Hazardous Substances

The following ingredients are listed or exempt:

## FLO-ROK CRACKFAST SEAL | PART B

### *BENZOYL PEROXIDE*

Present.

10-15%

### **Massachusetts "Right To Know" List**

The following ingredients are listed or exempt:

#### *GLYCERINE*

Present.

20-50%

#### *ZINC DISTEARATE*

Present.

1-5%

#### *BENZOYL PEROXIDE*

Present.

10-15%

### **Rhode Island "Right To Know" List**

The following ingredients are listed or exempt:

### **Minnesota "Right To Know" List**

The following ingredients are listed or exempt:

#### *GLYCERINE*

Present.

20-50%

#### *ZINC DISTEARATE*

Present.

1-5%

#### *BENZOYL PEROXIDE*

Present.

10-15%

### **New Jersey "Right To Know" List**

The following ingredients are listed or exempt:

#### *GLYCERINE*

Present.

20-50%

#### *ZINC DISTEARATE*

Present.

1-5%

#### *BENZOYL PEROXIDE*

Present.

10-15%

### **Pennsylvania "Right To Know" List**

The following ingredients are listed or exempt:

#### *GLYCERINE*

Present.

20-50%

#### *ZINC DISTEARATE*

Present.

1-5%

**FLO-ROK CRACKFAST SEAL | PART B***BENZOYL PEROXIDE*

Present.

10-15%

**Inventories****Canada - DSL/NDSL**

All the ingredients are listed or exempt.

*WATER*

DSL

5-10%

*GLYCERINE*

DSL

20-50%

*ZINC DISTEARATE*

DSL

1-5%

**US - TSCA**

All the ingredients are listed or exempt.

*WATER*

Present.

5-10%

*GLYCERINE*

Present.

20-50%

*BENZOIC ACID, NONYL ESTER, BRANCHED AND LINEAR*

Present.

1-5%

*ZINC DISTEARATE*

Present.

1-5%

*BENZOYL PEROXIDE*

Present.

10-15%

**16. Other information**

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	14/03/2019
<b>Version number</b>	2.002
<b>Supersedes date</b>	23/03/2016
<b>SDS No.</b>	20488
<b>Hazard statements in full</b>	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**FASTENING PRODUCTS**

## SAFETY DATA SHEET FLO-ROK CRACKFAST RESIN | PART A

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

### 1. Identification

#### Product identifier

**Product name** CRACKFAST INJECTION | PART A

#### Recommended use of the chemical and restrictions on use

**Application** Two component epoxy based adhesive. Resin.

#### Details of the supplier of the safety data sheet

**Supplier** UCAN Fastening Products  
155 Champagne Drive, Unit 10  
Toronto, Ontario, M3J 2C6  
Tel.: 416-631-9400 | Fax: 416-631-9426 | Email: sales@ucanfast.com  
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

#### Emergency telephone number

**Emergency telephone** CHEMTRAC 800-424-9300 (24 hr. Emergency)

### 2. Hazard(s) identification

#### Classification of the substance or mixture

**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317

#### Label elements

##### Pictogram



**Signal word** Danger

**Hazard statements** H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.

## FLO-ROK CRACKFAST RESIN | PART A

<b>Precautionary statements</b>	<p>P261 Avoid breathing vapor/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing must not be allowed out of the workplace.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 If on skin: Wash with plenty of water.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a poison center/ doctor.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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<b>Contains</b>	EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN, BUTANEDIOLDIGLYCIDYL ETHER, REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)
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### 3. Composition/information on ingredients

#### Mixtures

<b>EPOXY RESIN (Number average MW &lt;= 700 )</b> CAS number: 25068-38-6	<b>50-80%</b>
<b>EPOXY PHENOL FORMALDEHYDE RESIN</b> CAS number: 9003-36-5	<b>20-50%</b>
<b>BUTANEDIOLDIGLYCIDYL ETHER</b> CAS number: 2425-79-8	<b>10-20%</b>
<b>REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)</b> CAS number: 933999-84-9	<b>1-5%</b>

<b>Composition comments</b>	CAS 28064-14-4 = CAS 9003-36-5 (EU) CAS 933999-84-9 = CAS 16096-31-4 (RoW)
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### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation</b>	Remove affected person from source of contamination. Get medical attention if any discomfort continues.
<b>Ingestion</b>	DO NOT induce vomiting. Get medical attention immediately.
<b>Skin Contact</b>	Remove contaminated clothing immediately and wash skin with soap and water.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

#### Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	May cause respiratory irritation.
<b>Ingestion</b>	May cause stomach pain or vomiting.

## FLO-ROK CRACKFAST RESIN | PART A

**Skin contact** Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. May cause sensitisation by skin contact.

**Eye contact** Irritating to eyes.

### Indication of immediate medical attention and special treatment needed

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media** Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media** DO NOT use water if avoidable.

media

#### Special hazards arising from the substance or mixture

**Specific hazards** No unusual fire or explosion hazards noted.

**Hazardous combustion products** Oxides of carbon. Oxides of nitrogen.

products

#### Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

#### Environmental precautions

**Environmental precautions** Avoid release to the environment.

#### Methods and material for containment and cleaning up

**Methods for cleaning up** Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

**Reference to other sections** For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Avoid contact with eyes. Avoid contact with skin.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use.

## FLO-ROK CRACKFAST RESIN | PART A

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

### 8. Exposure controls/Personal protection

#### Exposure controls

##### Protective equipment



**Appropriate engineering controls**

No specific ventilation requirements.

**Eye/face protection**

Wear eye protection.

**Hand protection**

Wear protective gloves made of the following material: Nitrile rubber.

**Hygiene measures**

Provide eyewash station. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

**Respiratory protection**

Not relevant.

**Environmental exposure controls**

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid
<b>Color</b>	Yellow-white.
<b>Odor</b>	Characteristic.
<b>Odor threshold</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not applicable.
<b>Initial boiling point and range</b>	>35°C @ 760 mm Hg
<b>Flash point</b>	>100°C Closed cup. Literature
<b>Evaporation rate</b>	No information available.
<b>Evaporation factor</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Other flammability</b>	Not available.
<b>Vapor pressure</b>	<500 Pa @ °C
<b>Vapor density</b>	No information available.
<b>Relative density</b>	1.1 - 1.2
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Insoluble in water



## FLO-ROK CRACKFAST RESIN | PART A

<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	500 - 1000 mPa s @ 20°C
<b>Explosive properties</b>	No information available.
<b>Explosive under the influence of a flame</b>	No
<b>Oxidizing properties</b>	Does not meet the criteria for classification as oxidizing.

### 10. Stability and reactivity

<b>Reactivity</b>	The following materials may react with the product: Acids. Amides. Amines. Phenols, cresols.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Possibility of hazardous reactions</b>	The following materials may react with the product: Acids. Amides. Amines. Phenols, cresols.
<b>Conditions to avoid</b>	Avoid contact with acids and alkalis.
<b>Materials to avoid</b>	Acids. Amines. Amides.
<b>Hazardous decomposition products</b>	Oxides of carbon. Oxides of nitrogen.

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

ATE oral (mg/kg) 3,333.33

##### Acute toxicity - dermal

ATE dermal (mg/kg) 7,333.33

##### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 73.33

##### Skin sensitization

Skin sensitization Sensitizing.

**General information** Contains epoxy constituents. See information supplied by the manufacturer.

**Inhalation** No specific health hazards known.

**Ingestion** No harmful effects expected from quantities likely to be ingested by accident.

**Skin Contact** Irritating to skin. May cause sensitisation by skin contact.

**Eye contact** May cause severe eye irritation.

**Acute and chronic health hazards** Irritating to skin. Irritating to eyes.

**Route of exposure** Skin and/or eye contact.

## FLO-ROK CRACKFAST RESIN | PART A

<b>Medical Symptoms</b>	Skin irritation.
<b>Medical considerations</b>	Skin disorders and allergies.

### Toxicological information on ingredients.

#### EPOXY RESIN (Number average MW <= 700 )

##### Acute toxicity - oral

Acute toxicity oral (LD <sub>50</sub> )	11,400.0
mg/kg)	
Species	Rat

##### Acute toxicity - dermal

Acute toxicity dermal (LD <sub>50</sub> )	1,200.0
mg/kg)	
Species	Rat

#### BUTANEDIOLDIGLYCIDYL ETHER

##### Acute toxicity - oral

Acute toxicity oral (LD <sub>50</sub> )	1,163.0
mg/kg)	
Species	Rat

ATE oral (mg/kg)	500.0
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##### Acute toxicity - dermal

Acute toxicity dermal (LD <sub>50</sub> )	2,150.0
mg/kg)	
Species	Rat

ATE dermal (mg/kg)	1,100.0
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##### Acute toxicity - inhalation

ATE inhalation (vapours)	11.0
mg/l)	

#### REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYLOXIRANE(1:2)

##### Acute toxicity - oral

Acute toxicity oral (LD <sub>50</sub> )	3,010.0
mg/kg)	
Species	Rat

## 12. Ecological information

### Ecological information on ingredients.

#### EPOXY RESIN (Number average MW <= 700 )

##### Acute aquatic toxicity

Acute toxicity - fish	LC50, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)
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**FLO-ROK CRACKFAST RESIN | PART A**

<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 1.8 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 11 mg/l, Freshwater algae EC <sub>50</sub> , 96 hours: 220 mg/l, Scenedesmus subspicatus
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days: 0.3 mg/l, Daphnia magna

**REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2) Acute****aquatic toxicity**

<b>Acute toxicity - fish</b>	LC50, 96 hours: 30 mg/l, Oncorhynchus mykiss (Rainbow trout)
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**Persistence and degradability**

**Persistence and degradability** The product is not biodegradable.

**Ecological information on ingredients.****EPOXY RESIN (Number average MW <= 700 )**

<b>Biodegradation</b>	- 12% Degradation (%): 28 days
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**REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)**

<b>Biodegradation</b>	- 47% Degradation (%): 28 days OECD 301D
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**Bioaccumulative potential**

**Bio-Accumulative Potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

**Ecological information on ingredients.****EPOXY RESIN (Number average MW <= 700 )**

**Bio-Accumulative Potential** May accumulate in soil and water systems. BCF: 100 - 3000,

**Partition coefficient** log Pow: 3.242 Estimated Value

**REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)**

**Bio-Accumulative Potential** BCF: < 100, Estimated Value

**Partition coefficient** log Pow: -0.272 Estimated Value

**Mobility in soil**

**Mobility** The product is insoluble in water and will spread on the water surface. The product is non volatile. Semi-mobile.

**Ecological information on ingredients.****EPOXY RESIN (Number average MW <= 700 )**

**Mobility** Semi-mobile.

**FLO-ROK CRACKFAST RESIN | PART A**

<b>Adsorption/desorption coefficient</b>	Water - Koc: 1800 - 4400 @ 25°C Estimated Value
<b>Henry's law constant</b>	4.93E-05 Pa m <sup>3</sup> /mol @ 25°C

**13. Disposal considerations****Waste treatment methods**

**Disposal methods** Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Dispose of waste via a licensed waste disposal contractor.

**14. Transport information****UN Number**

<b>UN No. (TDG)</b>	3082
<b>UN No. (IMDG)</b>	3082
<b>UN No. (ICAO)</b>	3082
<b>UN No. (DOT)</b>	UN3082

**UN proper shipping name**

<b>Proper shipping name (TDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN)
<b>Proper shipping name (IMDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN)
<b>Proper shipping name (ICAO)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN)
<b>Proper shipping name (DOT)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN)

**Transport hazard class(es)**

<b>DOT hazard class</b>	9
<b>DOT hazard label</b>	9
<b>TDG class</b>	9
<b>TDG label(s)</b>	9
<b>IMDG Class</b>	9
<b>ICAO class/division</b>	9

**Transport labels****DOT transport labels****Packing group**

<b>TDG Packing Group</b>	III
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**FLO-ROK CRACKFAST RESIN | PART A**

IMDG packing group III

ICAO packing group III

DOT packing group III

Environmental hazards Environmentally

Hazardous Substance

Special precautions for user

EmS F-A, S-F

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

**15. Regulatory information**

Guidance Workplace Exposure Limits EH40.

US Federal Regulations**SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed or exempt.

**CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

None of the ingredients are listed or exempt.

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed or exempt.

**SARA 313 Emission Reporting**

None of the ingredients are listed or exempt.

**CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

**FDA - Essential Chemical**

None of the ingredients are listed or exempt.

**FDA - Precursor Chemical**

None of the ingredients are listed or exempt.

**OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

US State Regulations**California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

**California Air Toxics "Hot Spots" (A-I)**

None of the ingredients are listed or exempt.

## FLO-ROK CRACKFAST RESIN | PART A

### California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

### California Directors List of Hazardous Substances

None of the ingredients are listed or exempt.

### Massachusetts "Right To Know" List

None of the ingredients are listed or exempt.

### Rhode Island "Right To Know" List

None of the ingredients are listed or exempt.

### Minnesota "Right To Know" List

None of the ingredients are listed or exempt.

### New Jersey "Right To Know" List

None of the ingredients are listed or exempt.

### Pennsylvania "Right To Know" List

None of the ingredients are listed or exempt.

### Inventories

#### Canada - DSL/NDSL

The following ingredients are listed or exempt:

*EPOXY PHENOL FORMALDEHYDE RESIN*

DSL

*REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)*

Domestic Substance List

*EPOXY RESIN (Number average MW <= 700 )*

DSL

*BUTANEDIOLDIGLYCIDYL ETHER*

DSL

#### US - TSCA

All the ingredients are listed or exempt.

#### US - TSCA 12(b) Export Notification

The following ingredients are listed or exempt:

*REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)*

Present.

## FLO-ROK CRACKFAST RESIN | PART A

### 16. Other information

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	14/03/2019
<b>Version number</b>	1.001
<b>Supersedes date</b>	23/03/2016
<b>SDS No.</b>	20444
<b>Hazard statements in full</b>	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



## SAFETY DATA SHEET FLO-ROK CRACKFAST RESIN | PART B

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

### 1. Identification

#### Product identifier

**Product name** CRACKFAST INJECTION | PART B

#### Recommended use of the chemical and restrictions on use

**Application** Two component epoxy based adhesive. Hardener.

#### Details of the supplier of the safety data sheet

**Supplier** UCAN Fastening Products  
155 Champagne Drive, Unit 10  
Toronto, Ontario, M3J 2C6  
Tel.: 416-631-9400 | Fax: 416-631-9426 | Email: sales@ucanfast.com  
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

#### Emergency telephone number

**Emergency telephone** CHEMTRAC 800-424-9300 (24 hr. Emergency)

### 2. Hazard(s) identification

#### Classification of the substance or mixture

**Physical hazards** Not Classified

**Health hazards** Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361 STOT RE 1 - H372

**Human health** Corrosive. Prolonged contact causes serious eye and tissue damage. Contains a substance/a group of substances which may damage fertility and the unborn child.

**Environmental** The product contains a substance which may have hazardous effects on the environment.

#### Label elements

##### Pictogram



**Signal word**

Danger



## FLO-ROK CRACKFAST RESIN | PART B

<b>Hazard statements</b>	H302+H312 Harmful if swallowed or in contact with skin. 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.
<b>Precautionary statements</b>	P260 Do not breathe vapor/ spray. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P302+P352 If on skin: Wash with plenty of 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. P362+P364 Take off contaminated clothing and wash it before reuse. P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.
<b>Contains</b>	HYDROCARBONS,C-9 UNSATURATED, POLYMER WITH PHENOLS, 2-PIPERAZIN-1 YLETHYLAMINE, STYRENATED PHENOL, BENZYL ALCOHOL, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, 1,3-CYCLOHEXANEBIS(METHYLAMINE), SALICYLIC ACID, TRIETHYLENETETRAMINE, 3-AMINOPROPYLDIMETHYLAMINE

### 3. Composition/information on ingredients

#### Mixtures

<b>HYDROCARBONS,C-9 UNSATURATED, POLYMER WITH PHENOLS</b>	<b>20-50%</b>
CAS number: 71302-91-5	
<b>2-PIPERAZIN-1-YLETHYLAMINE</b>	<b>20-50%</b>
CAS number: 140-31-8	
<b>STYRENATED PHENOL</b>	<b>10-20%</b>
CAS number: 61788-44-1	
<b>BENZYL ALCOHOL</b>	<b>5-10%</b>
CAS number: 100-51-6	
<b>2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL</b>	<b>5-10%</b>
CAS number: 90-72-2	
<b>1,3-CYCLOHEXANEBIS(METHYLAMINE)</b>	<b>1-5%</b>
CAS number: 2579-20-6	
<b>SALICYLIC ACID</b>	<b>1-5%</b>
CAS number: 69-72-7	

## FLO-ROK CRACKFAST RESIN | PART B

<b>TRIETHYLENETETRAMINE</b>	<b>&gt;0.5 &lt;1.0%</b>
CAS number: 112-24-3	
<b>3-AMINOPROPYLDIMETHYLAMINE</b>	<b>&gt;0.5 &lt;1.0%</b>
CAS number: 109-55-7	
<b>BIS(ISOPROPYL)NAPHTHALENE</b>	<b>&gt;0.5 &lt;1.0%</b>
CAS number: 38640-62-9	
<b>CYCLOHEXANONE</b>	<b>&lt;0.5%</b>
CAS number: 108-94-1	
<b>DIETHYLENETRIAMINE</b>	<b>&lt;0.5%</b>
CAS number: 111-40-0	

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation</b>	Remove affected person from source of contamination. Get medical attention if any discomfort continues.
<b>Ingestion</b>	DO NOT induce vomiting. Get medical attention immediately.
<b>Skin Contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

#### Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Irritation of nose, throat and airway.
<b>Ingestion</b>	May cause stomach pain or vomiting.
<b>Skin contact</b>	Burning pain and severe corrosive skin damage. Blistering may occur. Chemical burns.
<b>Eye contact</b>	May cause blurred vision and serious eye damage.

#### Indication of immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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### 5. Fire-fighting measures

#### Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media</b>	DO NOT use water if avoidable.

#### Special hazards arising from the substance or mixture

<b>Specific hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Oxides of carbon. Oxides of nitrogen.

## FLO-ROK CRACKFAST RESIN | PART B

### Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

#### Environmental precautions

**Environmental precautions** Collect and dispose of spillage as indicated in Section 13. Contain spillage with sand, earth or other suitable non-combustible material. Avoid discharge into drains or watercourses or onto the ground.

#### Methods and material for containment and cleaning up

**Methods for cleaning up** Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

**Reference to other sections** For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Avoid contact with skin. Avoid contact with eyes. Do not empty into drains.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep away from food and drink. Keep container closed when not in use.

#### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

### 8. Exposure controls/Personal protection

#### Control parameters

#### Occupational exposure limits

##### **CYCLOHEXANONE**

Long-term exposure limit (8-hour TWA): OSHA 50 ppm 200 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm

Short-term exposure limit (15-minute): ACGIH 50 ppm

A3, Sk

##### **DIETHYLENETRIAMINE**

Long-term exposure limit (8-hour TWA): ACGIH 1 ppm 4.2 mg/m<sup>3</sup>

Sk

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

Sk = Danger of cutaneous absorption.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

#### Exposure controls

## FLO-ROK CRACKFAST RESIN | PART B

### Protective equipment



### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

### Eye/face protection

The following protection should be worn: Tight-fitting safety glasses. Contact lenses should not be worn when working with this chemical.

### Hand protection

Wear protective gloves made of the following material: Nitrile rubber.

### Other skin and body protection

Avoid contact with skin. Wear appropriate clothing to prevent repeated or prolonged skin contact.

### Hygiene measures

Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Use engineering controls to reduce air contamination to permissible exposure level.

### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

### Environmental exposure controls

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Liquid
Color	Amber. to Brown.
Odor	Characteristic. Amine.
Odor threshold	Not determined.
pH	Not applicable.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	>100°C Closed cup. Literature
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Other flammability	Not applicable.
Vapor pressure	Not determined.
Vapor density	Not determined.
Relative density	~ 1.00
Bulk density	Not available.
Solubility(ies)	Not determined.
Partition coefficient	Not determined.

## FLO-ROK CRACKFAST RESIN | PART B

<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	~500 mPa s @ 20°C
<b>Explosive properties</b>	No information available.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidizing properties</b>	Does not meet the criteria for classification as oxidizing.

### 10. Stability and reactivity

<b>Reactivity</b>	The following materials may react with the product: Acids. Epoxides. Oxidizing agents. Peroxides.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Possibility of hazardous reactions</b>	The following materials may react with the product: Acids. Epoxides. Oxidizing agents. Peroxides.
<b>Conditions to avoid</b>	Stable. However, may decompose if heated.
<b>Materials to avoid</b>	Acids. Epoxides. Oxidizing agents. Peroxides.
<b>Hazardous decomposition products</b>	Oxides of carbon. Oxides of nitrogen.

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

ATE oral (mg/kg) 623.38

##### Acute toxicity - dermal

ATE dermal (mg/kg) 1,215.59

##### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 137.17

##### Skin sensitization

Skin sensitization Sensitizing.

##### Reproductive toxicity

Reproductive toxicity - fertility Contains a substance/a group of substances which may damage fertility.

<b>Inhalation</b>	Vapor may irritate respiratory system/lungs.
<b>Ingestion</b>	May cause stomach pain or vomiting.
<b>Skin Contact</b>	May cause sensitisation by skin contact. May cause serious chemical burns to the skin.
<b>Eye contact</b>	Risk of serious damage to eyes. May cause chemical eye burns.
<b>Acute and chronic health hazards</b>	May cause sensitisation by skin contact. Causes severe burns.
<b>Route of exposure</b>	Skin and/or eye contact Inhalation

## FLO-ROK CRACKFAST RESIN | PART B

<b>Target Organs</b>	No specific target organs known.
<b>Medical Symptoms</b>	Symptoms following overexposure may include the following: Chemical burns.
<b>Medical considerations</b>	Splash in eye requires examination by eye specialist.

### Toxicological information on ingredients.

#### HYDROCARBONS,C-9 UNSATURATED, POLYMER WITH PHENOLS

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>) 1,200.0

mg/kg)

Species Rat

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>) 10,000.0

mg/kg)

Species Rat

#### 2-PIPERAZIN-1-YLETHYLAMINE

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>) 1,470.0

mg/kg)

Species Rat

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>) 866.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 300.0

#### STYRENATED PHENOL

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>) 2,000.0

mg/kg)

Species Rat

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>) 2,000.0

mg/kg)

Species Rat

#### BENZYL ALCOHOL

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>) 1,040.0

mg/kg)

Species Rabbit

## FLO-ROK CRACKFAST RESIN | PART B

ATE oral (mg/kg) 500.0

### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.0  
mg/kg)

Species Rabbit

### Acute toxicity - inhalation

ATE inhalation (vapours 11.0  
mg/l)

### 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 2,169.0  
mg/kg)

Species Rat

ATE oral (mg/kg) 500.0

### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 1.0  
mg/kg)

Species Rat

### 1,3-CYCLOHEXANEBIS(METHYLAMINE)

### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 700.0  
mg/kg)

Species Rat

### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 1,700.0  
mg/kg)

Species Rabbit

### SALICYLIC ACID

### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 891.0  
mg/kg)

Species Rat

### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.0  
mg/kg)

Species Rat

### TRIETHYLENETETRAMINE

### Acute toxicity - oral

**FLO-ROK CRACKFAST RESIN | PART B**

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

3-AMINOPROPYLDIMETHYLAMINEAcute toxicity - oralAcute toxicity oral (LD<sub>50</sub>  
mg/kg) 1,600.0

Species Rat

Acute toxicity - dermalAcute toxicity dermal (LD<sub>50</sub>  
mg/kg) 1,200.0

Species Rat

BIS(ISOPROPYL)NAPHTHALENEAcute toxicity - oralAcute toxicity oral (LD<sub>50</sub>  
mg/kg) 4,130.0

Species Rat

CYCLOHEXANONEAcute toxicity - oralAcute toxicity oral (LD<sub>50</sub>  
mg/kg) 1,890.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermalAcute toxicity dermal (LD<sub>50</sub>  
mg/kg) 3,160.0

Species Rabbit

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalationATE inhalation (vapours  
mg/l) 11.0Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

DIETHYLENETRIAMINEAcute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal



**FLO-ROK CRACKFAST RESIN | PART B**

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 0.5

**12. Ecological information**Ecological information on ingredients.2-PIPERAZIN-1-YLETHYLAMINEAcute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 2190 mg/l, Pimephales promelas (Fat-head Minnow)  
LC50, 96 hours: 368 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 32 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC<sub>50</sub>, 48 hours: 494 mg/l, Selenastrum capricornutum

STYRENATED PHENOLAcute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 14.8 mg/l,

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 1-10 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC<sub>50</sub>, 72 hours: 3.14 mg/l, Scenedesmus subspicatus

BENZYL ALCOHOLAcute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 10 mg/l, Lepomis macrochirus (Bluegill)  
LC50, 96 hours: 645 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 400 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC<sub>50</sub>, 3 hours: 79 mg/l, Scenedesmus subspicatus  
EC<sub>50</sub>, 96 hours: 640 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms EC<sub>50</sub>, 48 hours: 2100 mg/l, Activated sludge

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOLAcute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 180 - 240 mg/l, Oncorhynchus mykiss (Rainbow trout)  
LC50, 96 hours: 175 mg/l, Cyprinus carpio (Common carp)

1,3-CYCLOHEXANEBIS(METHYLAMINE)Acute aquatic toxicity

Acute toxicity - fish LC50, > 96 hours: 100 mg/l, Leuciscus idus (Golden orfe)

## FLO-ROK CRACKFAST RESIN | PART B

<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 29 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , > 96 hours: 100 mg/l, Scenedesmus subspicatus
<b>Acute toxicity - terrestrial</b>	EC <sub>50</sub> , > 14 days: 1000 mg/kg, Eisenia Fetida (Earthworm)

### SALICYLIC ACID

#### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC50, 48 hours: 90 mg/l, Leuciscus idus (Golden orfe)
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , > 3 hours: 3200 mg/l, Activated sludge

### TRIETHYLENETETRAMINE

#### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC50, 96 hours: 330 mg/l, Pimephales promelas (Fat-head Minnow) LC50, 96 hours: 570 mg/l, Poecilia reticulata (Guppy)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 31 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 20 mg/l, Selenastrum capricornutum
<b>Acute toxicity - microorganisms</b>	, : 800 mg/l, Activated sludge

#### Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

#### Bioaccumulative potential

**Bio-Accumulative Potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

#### Mobility in soil

**Mobility** Mobile. The product is miscible with water and may spread in water systems.

### 13. Disposal considerations

#### Waste treatment methods

**General information** Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

**Disposal methods** Dispose of waste via a licensed waste disposal contractor.

### 14. Transport information

#### UN Number

<b>UN No. (TDG)</b>	2735
<b>UN No. (IMDG)</b>	2735
<b>UN No. (ICAO)</b>	2735
<b>UN No. (DOT)</b>	UN2735

**FLO-ROK CRACKFAST RESIN | PART B****UN proper shipping name**

<b>Proper shipping name (TDG)</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 2-PIPERAZIN-1-YLETHYLAMINE, 1,3-CYCLOHEXANEBIS(METHYLAMINE))
<b>Proper shipping name (IMDG)</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 2-PIPERAZIN-1-YLETHYLAMINE, 1,3-CYCLOHEXANEBIS(METHYLAMINE))
<b>Proper shipping name (ICAO)</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 2-PIPERAZIN-1-YLETHYLAMINE, 1,3-CYCLOHEXANEBIS(METHYLAMINE))
<b>Proper shipping name (DOT)</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 2-PIPERAZIN-1-YLETHYLAMINE, 1,3-CYCLOHEXANEBIS(METHYLAMINE))

**Transport hazard class(es)**

<b>DOT hazard class</b>	8
<b>DOT hazard label</b>	8
<b>TDG class</b>	8
<b>TDG label(s)</b>	8
<b>IMDG Class</b>	8
<b>ICAO class/division</b>	8

**Transport labels****DOT transport labels****Packing group**

<b>TDG Packing Group</b>	II
<b>IMDG packing group</b>	II
<b>ICAO packing group</b>	II
<b>DOT packing group</b>	II

**Environmental hazards Environmentally****Hazardous Substance**

No.

**Special precautions for user**

**IMDG Code segregation group** 18. Alkalis

**EmS** F-A, S-B

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**15. Regulatory information**

## FLO-ROK CRACKFAST RESIN | PART B

**Guidance** Workplace Exposure Limits EH40.

### US Federal Regulations

#### **SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed or exempt.

#### **CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

The following ingredients are listed or exempt:

##### *CYCLOHEXANONE*

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

<0.5%

#### **SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed or exempt.

#### **SARA 313 Emission Reporting**

None of the ingredients are listed or exempt.

#### **CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

#### **FDA - Essential Chemical**

None of the ingredients are listed or exempt.

#### **FDA - Precursor Chemical**

None of the ingredients are listed or exempt.

#### **OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

### US State Regulations

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### **California Air Toxics "Hot Spots" (A-I)**

None of the ingredients are listed or exempt.

#### **California Air Toxics "Hot Spots" (A-II)**

None of the ingredients are listed or exempt.

#### **California Directors List of Hazardous Substances**

The following ingredients are listed or exempt:

##### *CYCLOHEXANONE*

Present.

<0.5%

##### *DIETHYLENETRIAMINE*

Present.

<0.5%

#### **Massachusetts "Right To Know" List**

The following ingredients are listed or exempt:

##### *BENZYL ALCOHOL*

Present.

5-10%

## FLO-ROK CRACKFAST RESIN | PART B

### *CYCLOHEXANONE*

Present.

<0.5%

*3-AMINOPROPYLDIMETHYLAMINE* Present.

>0.5 <1.0%

### *TRIETHYLENETETRAMINE*

Present.

>0.5 <1.0%

### *2-PIPERAZIN-1-YLETHYLAMINE*

Present.

20-50%

### *DIETHYLENETRIAMINE*

Present.

<0.5%

### **Rhode Island "Right To Know" List**

The following ingredients are listed or exempt:

#### *CYCLOHEXANONE*

Present.

<0.5%

#### *DIETHYLENETRIAMINE*

Present.

<0.5%

### **Minnesota "Right To Know" List**

The following ingredients are listed or exempt:

#### *BENZYL ALCOHOL*

Present.

5-10%

#### *CYCLOHEXANONE*

Present.

<0.5%

#### *DIETHYLENETRIAMINE*

Present.

<0.5%

### **New Jersey "Right To Know" List**

The following ingredients are listed or exempt:

#### *CYCLOHEXANONE*

Present.

<0.5%

*3-AMINOPROPYLDIMETHYLAMINE* Present.

>0.5 <1.0%

#### *TRIETHYLENETETRAMINE*

Present.

>0.5 <1.0%

**FLO-ROK CRACKFAST RESIN | PART B***2-PIPERAZIN-1-YLETHYLAMINE*

Present.

20-50%

*DIETHYLENETRIAMINE*

Present.

&lt;0.5%

**Pennsylvania "Right To Know" List**

The following ingredients are listed or exempt:

*BENZYL ALCOHOL*

Present.

5-10%

*CYCLOHEXANONE*

Present.

&lt;0.5%

*3-AMINOPROPYLDIMETHYLAMINE*

Present.

&gt;0.5 &lt;1.0%

*TRIETHYLENETETRAMINE*

Present.

&gt;0.5 &lt;1.0%

*2-PIPERAZIN-1-YLETHYLAMINE*

Present.

20-50%

*DIETHYLENETRIAMINE*

Present.

&lt;0.5%

**Inventories****Canada - DSL/NDSL**

The following ingredients are listed or exempt:

*BENZYL ALCOHOL*

DSL

*2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL*

DSL

*3-AMINOPROPYLDIMETHYLAMINE*

DSL

*TRIETHYLENETETRAMINE*

DSL

*HYDROCARBONS,C-9 UNSATURATED, POLYMER WITH PHENOLS*

NDSL

*2-PIPERAZIN-1-YLETHYLAMINE*

DSL

*SALICYLIC ACID*

DSL

*BIS(ISOPROPYL)NAPHTHALENE*

DSL

## FLO-ROK CRACKFAST RESIN | PART B

*1,3-CYCLOHEXANEBIS(METHYLAMINE)*

DSL

*STYRENATED PHENOL*

DSL

*DIETHYLENETRIAMINE*

DSL

**US - TSCA** All the ingredients are listed or exempt.

### 16. Other information

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	14/03/2019
<b>Version number</b>	1.001
<b>Supersedes date</b>	23/03/2016
<b>SDS No.</b>	20369
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H361 Suspected of damaging fertility or the unborn child. H372 Causes damage to organs through prolonged or repeated exposure.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.