FLO – ROK CRACKFAST (SDS)

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

CRACKFAST RESIN (PART A AND B) PAGE 21 TO 47
1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>CRACKFAST SEAL</th>
<th>PART A</th>
</tr>
</thead>
</table>

**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**

<table>
<thead>
<tr>
<th>Supplier</th>
<th>UCAN Fastening Products</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>155 Champagne Drive, Unit 10</td>
</tr>
<tr>
<td></td>
<td>Toronto, Ontario, M3J 2C6</td>
</tr>
<tr>
<td></td>
<td>Tel.: 416-631-9400</td>
</tr>
<tr>
<td></td>
<td>Toll Free: CAD 1-800-268-1248</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Physical hazards</th>
<th>Flam. Liq. 3 - H226</th>
</tr>
</thead>
</table>

| Health hazards | Not Classified |

**Label elements**

<table>
<thead>
<tr>
<th>Pictogram</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Warning</th>
</tr>
</thead>
</table>

| Hazard statements | H226 Flammable liquid and vapor. |
**FLO-ROK CRACKFAST SEAL | PART A**

**Precautionary statements**
- P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
- P264 Wash contaminated skin thoroughly after handling.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P302+P352 If on skin: Wash with plenty of water.
- P332+P313 If skin irritation occurs: Get medical advice/ attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/ container in accordance with national regulations.

**Labeling notes**
- Not classified for health hazards.: On basis of test data.
- OECD Test No. 439

---

**3. Composition/information on ingredients**

**Mixtures**

<table>
<thead>
<tr>
<th>VINYL TOLUENE</th>
<th>10-20%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number:</td>
<td>25013-15-4</td>
</tr>
</tbody>
</table>

---

**4. First-aid measures**

**Description of first aid measures**

**Inhalation**
- Move affected person to fresh air at once.

**Ingestion**
- 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.

**Skin Contact**
- Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

**Eye contact**
- Rinse immediately with plenty of water. Show this Safety Data Sheet to the medical personnel.

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

| Inhalation | May cause respiratory irritation. |
| Ingestion  | May cause discomfort if swallowed. |
| Skin contact | May cause skin irritation/eczema. |
| Eye contact | May irritate 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 foam, carbon dioxide or dry powder.

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

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

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

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 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/m³
Long-term exposure limit (8-hour TWA): ACGIH 50 ppm 242 mg/m³
Short-term exposure limit (15-minute): ACGIH 100 ppm 483 mg/m³
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

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.
FLO-ROK CRACKFAST SEAL | PART A

Hand protection
It is recommended that chemical-resistant, impervious gloves are worn.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures
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.

Respiratory protection
No specific recommendations.

Environmental exposure controls
Keep container tightly sealed when not in use.

9. Physical and chemical properties

Information on basic physical and chemical properties

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

Reactivity
The following materials may react with the product: Organic peroxides/hydroperoxides.

Stability
Stable at normal ambient temperatures.

Possibility of hazardous reactions
Does not decompose when used and stored as recommended.

Conditions to avoid
Avoid excessive heat for prolonged periods of time.

Materials to avoid
Organic peroxides/hydroperoxides.

Hazardous decomposition products
Oxides of carbon.

11. Toxicological information

Information on toxicological effects

Acute toxicity - inhalation
ATE inhalation (vapours mg/l) 79.18

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

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 (LD₅₀ mg/kg) 2,255.0

Species Rat

ATE oral (mg/kg) 2,255.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 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**

<table>
<thead>
<tr>
<th>Group</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Not classifiable as to its carcinogenicity to humans.</td>
</tr>
</tbody>
</table>

### 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**
  - EC₅₀, 48 hours: 1.3 mg/l, *Daphnia magna*
- **Acute toxicity - aquatic plants**
  - EC₅₀, 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.

### 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.

### 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)

<table>
<thead>
<tr>
<th>DOT hazard class</th>
<th>DOT hazard label</th>
<th>TDG class</th>
<th>TDG label(s)</th>
<th>IMDG Class</th>
<th>ICAO class/division</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

Transport labels

DOT transport labels

Packing group

<table>
<thead>
<tr>
<th>TDG Packing Group</th>
<th>IMDG packing group</th>
<th>ICAO packing group</th>
<th>DOT packing group</th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
<td>III</td>
<td>III</td>
<td>III</td>
</tr>
</tbody>
</table>

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.
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.
16. Other information

Revision comments: NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date: 14/03/2019
Version number: 2.001
Supersedes date: 23/03/2016
SDS No.: 20848
Hazard statements in full: 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.
# SAFETY DATA SHEET

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


<table>
<thead>
<tr>
<th>1. Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product identifier</strong></td>
</tr>
<tr>
<td><strong>Product name</strong></td>
</tr>
<tr>
<td><strong>Recommended use of the chemical and restrictions on use</strong></td>
</tr>
<tr>
<td><strong>Application</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Details of the supplier of the safety data sheet</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Supplier</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
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<tr>
<td><strong>Web</strong></td>
</tr>
<tr>
<td><strong>Contact person</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Emergency telephone number</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Emergency telephone</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Hazard(s) identification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Classification of the substance or mixture</strong></td>
</tr>
<tr>
<td><strong>Physical hazards</strong></td>
</tr>
<tr>
<td><strong>Health hazards</strong></td>
</tr>
<tr>
<td><strong>Human health</strong></td>
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<tr>
<td><strong>Environmental</strong></td>
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<tr>
<td><strong>Physicochemical</strong></td>
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<table>
<thead>
<tr>
<th><strong>Label elements</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pictogram</strong></td>
</tr>
<tr>
<td><strong>Signal word</strong></td>
</tr>
<tr>
<td><strong>Hazard statements</strong></td>
</tr>
</tbody>
</table>
Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
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.
P501 Dispose of contents/ container in accordance with national regulations.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P411 Store at temperatures not exceeding 25°C /77°F.

Contains

BENZOYL PEROXIDE

3. Composition/information on ingredients

Mixtures

GLYCERINE 20-50%
CAS number: 56-81-5

BENZOYL PEROXIDE 10-15%
CAS number: 94-36-0

BENZOIC ACID, NONYL ESTER, BRANCHED AND LINEAR 1-5%
CAS number: 670241-72-2

ZINC DISTEAREATE 1-5%
CAS number: 557-05-1

CARBON BLACK <0.5%
CAS number: 1333-86-4

4. First-aid measures

Description of first aid measures

Inhalation
Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion
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.

Skin Contact
Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact
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

Ingestion
May cause discomfort if swallowed.

Skin contact
Causes skin irritation.

Eye contact
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**

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)**

The identified uses for this product are detailed in Section 1.

**8. Exposure controls/Personal protection**

**Control parameters**

**Occupational exposure limits**
GLYCERINE
Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction
Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust

BENZOYL PEROXIDE
Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³
A4
Long-term exposure limit (8-hour TWA): OSHA 3.5 mg/m³

CARBON BLACK
Long-term exposure limit (8-hour TWA): OSHA 3.5 mg/m³
Long-term exposure limit (8-hour TWA): ACGIH 3 mg/m³ 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

Provide adequate ventilation.

The following protection should be worn: Chemical splash goggles.

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

Wear appropriate clothing to prevent any possibility of skin contact.

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

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 applicable.

Evaporation factor
Not determined.

Flammability (solid, gas)
Not determined.
Upper/lower flammability or explosive limits
Not determined.

Other flammability
Not determined.

Vapor pressure
Not determined.

Vapor density
Not determined.

Relative density
1.5 - 1.6

Bulk density
Not applicable.

Solubility(ies)
Not determined.

Partition coefficient
Not determined.

Auto-ignition temperature
Not determined.

Decomposition Temperature
>50°C

Viscosity
> 60 S ISO2431

Explosive properties
No information available.

Oxidizing properties
Not determined.

10. Stability and reactivity

Reactivity
The following materials may react with the product: Acids. Alkalis. Amines. Strong reducing agents.

Stability
Stable at normal ambient temperatures and when used as recommended. Will decompose at temperatures exceeding 50°C.

Possibility of hazardous reactions
Will not polymerize.

Conditions to avoid
Avoid contact with strong reducing agents. Avoid heat. Avoid contact with acids and alkalis.

Materials to avoid

Hazardous decomposition products
Oxides of carbon.

11. Toxicological information

Information on toxicological effects

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

Medical considerations
No information available.

12. Ecological information

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

Bioaccumulative potential
Bio-Accumulative Potential
No data available on bioaccumulation.

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
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 Not applicable.
Annex II of MARPOL 73/78
and the IBC Code

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%
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:
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

Revision comments
NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date
14/03/2019

Version number
2.002

Supersedes date
23/03/2016

SDS No.
20488

Hazard statements in full
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.
SAFETY DATA SHEET
FLO-ROK CRACKFAST RESIN | PART A


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.
Precautionary statements

P261 Avoid breathing vapor/spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P310 Immediately call a poison center/doctor.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with national regulations.

Contains

EPOXY RESIN (Number average MW <= 700), EPOXY PHENOL FORMALDEHYDE RESIN, BUTANEDIOLDIGLYCIDYL ETHER, REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYLOXIRANE(1:2)

3. Composition/information on ingredients

Mixtures

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

Composition comments

CAS 28064-14-4 = CAS 9003-36-5 (EU) CAS 933999-84-9 = CAS 16096-31-4 (RoW)

4. First-aid measures

Description of first aid measures

Inhalation
Remove affected person from source of contamination. Get medical attention if any discomfort continues.

Ingestion
DO NOT induce vomiting. Get medical attention immediately.

Skin Contact
Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact
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

Inhalation
May cause respiratory irritation.

Ingestion
May cause stomach pain or vomiting.
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.

Special hazards arising from the substance or mixture

Specific hazards

No unusual fire or explosion hazards noted.

Hazardous combustion 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

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.
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

Appearance
Liquid

Color
Yellow-white.

Odor
Characteristic.

Odor threshold
Not determined.

pH
Not applicable.

Melting point
Not applicable.

Initial boiling point and range
>35°C @ 760 mm Hg

Flash point
>100°C Closed cup. Literature

Evaporation rate
No information available.

Evaporation factor
Not applicable.

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits
Not applicable.

Other flammability
Not available.

Vapor pressure
<500 Pa @ °C

Vapor density
No information available.

Relative density
1.1 - 1.2

Bulk density
Not applicable.

Solubility(ies)
Insoluble in water
Partition coefficient  Not determined.
Auto-ignition temperature  Not determined.
Decomposition Temperature  Not determined.
Viscosity  500 - 1000 mPa s @ 20°C
Explosive properties  No information available.
Explosive under the influence of a flame  No
Oxidizing properties  Does not meet the criteria for classification as oxidizing.

10. Stability and reactivity
Reactivity  The following materials may react with the product: Acids. Amides. Amines. Phenols, cresols.
Stability  Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions  The following materials may react with the product: Acids. Amides. Amines. Phenols, cresols.
Conditions to avoid  Avoid contact with acids and alkalis.
Materials to avoid  Acids. Amines. Amides.

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.
### Medical Symptoms
Skin irritation.

### Medical considerations
Skin disorders and allergies.

### Toxicological information on ingredients.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Acute toxicity - oral</th>
<th>Acute toxicity oral (LD₅₀ mg/kg)</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPOXY RESIN (Number average MW &lt;= 700)</td>
<td></td>
<td>11,400.0</td>
<td>Rat</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BUTANEDIOLDIGLYCIDYL ETHER</th>
<th>Acute toxicity - oral</th>
<th>Acute toxicity oral (LD₅₀ mg/kg)</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1,163.0</td>
<td>Rat</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ATE oral (mg/kg)</th>
<th>500.0</th>
</tr>
</thead>
</table>

### Acute toxicity - dermal

<table>
<thead>
<tr>
<th>BUTANEDIOLDIGLYCIDYL ETHER</th>
<th>Acute toxicity - dermal</th>
<th>Acute toxicity dermal (LD₅₀ mg/kg)</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2,150.0</td>
<td>Rat</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ATE dermal (mg/kg)</th>
<th>1,100.0</th>
</tr>
</thead>
</table>

### Acute toxicity - inhalation

<table>
<thead>
<tr>
<th>ATE inhalation (vapours mg/l)</th>
<th>11.0</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Acute toxicity - oral</th>
<th>Acute toxicity oral (LD₅₀ mg/kg)</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3,010.0</td>
<td>Rat</td>
</tr>
</tbody>
</table>

### Ecological information

#### Ecological information on ingredients.

<table>
<thead>
<tr>
<th>EPOXY RESIN (Number average MW &lt;= 700)</th>
<th>Acute aquatic toxicity</th>
<th>Acute toxicity - fish</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LC50, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)</td>
<td></td>
</tr>
</tbody>
</table>
FLO-ROK CRACKFAST RESIN | PART A

Acute toxicity - aquatic invertebrates
EC₅₀, 48 hours: 1.8 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EC₅₀, 72 hours: 11 mg/l, Freshwater algae
EC₅₀, 96 hours: 220 mg/l, Scenedesmus subspicatus

Chronic aquatic toxicity
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
Acute toxicity - fish
LC₅₀, 96 hours: 30 mg/l, Oncorhynchus mykiss (Rainbow trout)

Persistence and degradability
The product is not biodegradable.

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)
Biodegradation
- 12% Degradation (%): 28 days

REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)
Biodegradation
- 47% Degradation (%): 28 days
OECD 301D

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

Adsorption/desorption coefficient
Water - Koc: 1800 - 4400 @ 25°C Estimated Value

Henry's law constant
4.93E-05 Pa m3/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
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 EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN)
Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN)
Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN)
Proper shipping name (DOT) ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN)

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

Transport labels

DOT transport labels

Packing group
TDG Packing Group III
FLO-ROK CRACKFAST RESIN | PART A

IMDG packing group
ICAO packing group
DOT packing group

III
III
III

Environmental hazards
Environmentally Hazardous Substance

Special precautions for user
EmS F-A, S-F

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

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.
None of the ingredients are listed or exempt.

None of the ingredients are listed or exempt.

None of the ingredients are listed or exempt.

None of the ingredients are listed or exempt.

None of the ingredients are listed or exempt.

None of the ingredients are listed or exempt.

None of the ingredients are listed or exempt.

None of the ingredients are listed or exempt.

None of the ingredients are listed or exempt.

None of the ingredients are listed or exempt.

The following ingredients are listed or exempt:

**EPOXY PHENOL FORMALDEHYDE RESIN**

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

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

**BUTANEDIOLDIGLYCIDYL ETHER**

The following ingredients are listed or exempt:

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

Present.
### 16. Other information

<table>
<thead>
<tr>
<th>Revision comments</th>
<th>NOTE: Lines within the margin indicate significant changes from the previous revision.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>14/03/2019</td>
</tr>
<tr>
<td>Version number</td>
<td>1.001</td>
</tr>
<tr>
<td>Supersedes date</td>
<td>23/03/2016</td>
</tr>
<tr>
<td>SDS No.</td>
<td>20444</td>
</tr>
</tbody>
</table>
| Hazard statements in full | H315 Causes skin irritation.  
                      | H317 May cause an allergic skin reaction.  
                      | H318 Causes serious eye damage. |
SAFETY DATA SHEET
FLO-ROK CRACKFAST RESIN | PART B


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
Hazard statements
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.

Precautionary statements
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.

Contains
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

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

**Description of first aid measures**

**Inhalation**
Remove affected person from source of contamination. Get medical attention if any discomfort continues.

**Ingestion**
DO NOT induce vomiting. Get medical attention immediately.

**Skin Contact**
Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

**Eye contact**
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**

**Inhalation**
Irritation of nose, throat and airway.

**Ingestion**
May cause stomach pain or vomiting.

**Skin contact**
Burning pain and severe corrosive skin damage. Blistering may occur. Chemical burns.

**Eye contact**
May cause blurred vision and serious eye damage.

**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.

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

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

**Hazardous combustion 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
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/m³
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/m³
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
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Amber. to Brown.</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic. Amine.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;100°C Closed cup. Literature</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation factor</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Other flammability</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density</td>
<td>~ 1.00</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>
FLO-ROK CRACKFAST RESIN | PART B

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

10. Stability and reactivity

Reactivity The following materials may react with the product: Acids. Epoxides. Oxidizing agents. Peroxides.
Stability Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions The following materials may react with the product: Acids. Epoxides. Oxidizing agents. Peroxides.
Conditions to avoid Stable. However, may decompose if heated.

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

Inhalation Vapor may irritate respiratory system/lungs.
Ingestion May cause stomach pain or vomiting.
Skin Contact May cause sensitisation by skin contact. May cause serious chemical burns to the skin.
Eye contact Risk of serious damage to eyes. May cause chemical eye burns.
Acute and chronic health hazards May cause sensitisation by skin contact. Causes severe burns.
Route of exposure Skin and/or eye contact Inhalation
**Target Organs**
No specific target organs known.

**Medical Symptoms**
Symptoms following overexposure may include the following: Chemical burns.

**Medical considerations**
Splash in eye requires examination by eye specialist.

**Toxicological information on ingredients.**

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

<table>
<thead>
<tr>
<th>Acute toxicity - oral</th>
<th>Acute toxicity oral (LD$_{50}$) mg/kg</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1,200.0</td>
<td>Rat</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acute toxicity - dermal</th>
<th>Acute toxicity dermal (LD$_{50}$) mg/kg</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10,000.0</td>
<td>Rat</td>
</tr>
</tbody>
</table>

### 2-PIPERAZIN-1-YLETHYLAMINE

<table>
<thead>
<tr>
<th>Acute toxicity - oral</th>
<th>Acute toxicity oral (LD$_{50}$) mg/kg</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1,470.0</td>
<td>Rat</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acute toxicity - dermal</th>
<th>Acute toxicity dermal (LD$_{50}$) mg/kg</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>866.0</td>
<td>Rabbit</td>
</tr>
</tbody>
</table>

### STYRENATED PHENOL

<table>
<thead>
<tr>
<th>Acute toxicity - oral</th>
<th>Acute toxicity oral (LD$_{50}$) mg/kg</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2,000.0</td>
<td>Rat</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acute toxicity - dermal</th>
<th>Acute toxicity dermal (LD$_{50}$) mg/kg</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2,000.0</td>
<td>Rat</td>
</tr>
</tbody>
</table>

### BENZYL ALCOHOL

<table>
<thead>
<tr>
<th>Acute toxicity - oral</th>
<th>Acute toxicity oral (LD$_{50}$) mg/kg</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1,040.0</td>
<td>Rabbit</td>
</tr>
</tbody>
</table>
ATE oral (mg/kg) 500.0

**Acute toxicity - dermal**

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rabbit

**Acute toxicity - inhalation**

ATE inhalation (vapours mg/l) 11.0

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

**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 2,169.0

Species Rat

ATE oral (mg/kg) 500.0

**Acute toxicity - dermal**

Acute toxicity dermal (LD₅₀ mg/kg) 1.0

Species Rat

**1,3-CYCLOHEXANEBIS(METHYLAMINE)**

**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 700.0

Species Rat

**Acute toxicity - dermal**

Acute toxicity dermal (LD₅₀ mg/kg) 1,700.0

Species Rabbit

**SALICYLIC ACID**

**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 891.0

Species Rat

**Acute toxicity - dermal**

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rat

**TRIETHYLENETETRAMINE**
### 3-AMINOPROPYLDIMETHYLAMINE

**Acute toxicity - oral**
- **Acute toxicity oral (LD₅₀ mg/kg)**: 1,600.0
- **Species**: Rat

**Acute toxicity - dermal**
- **Acute toxicity dermal (LD₅₀ mg/kg)**: 1,200.0
- **Species**: Rat

### BIS(ISOPROPYL)NAPHTHALENE

**Acute toxicity - oral**
- **Acute toxicity oral (LD₅₀ mg/kg)**: 4,130.0
- **Species**: Rat

### CYCLOHEXANONE

**Acute toxicity - oral**
- **Acute toxicity oral (LD₅₀ mg/kg)**: 1,890.0
- **Species**: Rat

**ATE oral (mg/kg)**: 500.0

**Acute toxicity - dermal**
- **Acute toxicity dermal (LD₅₀ mg/kg)**: 3,160.0
- **Species**: Rabbit

**ATE dermal (mg/kg)**: 1,100.0

**Acute toxicity - inhalation**
- **ATE inhalation (vapours mg/l)**: 11.0

### Carcinogenicity

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

### DIETHYLENETRIAMINE

**Acute toxicity - oral**
- **ATE oral (mg/kg)**: 500.0

**Acute toxicity - dermal**
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-YLETHYLAMINE

Acute 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
EC₅₀, 48 hours: 32 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EC₅₀, 48 hours: 494 mg/l, Selenastrum capricornutum

STYRENATED PHENOL

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

Acute toxicity - aquatic invertebrates
EC₅₀, 48 hours: 1-10 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EC₅₀, 48 hours: 3.14 mg/l, Scenedesmus subspicatus

BENZYL ALCOHOL

Acute 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
EC₅₀, 48 hours: 400 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EC₅₀, 3 hours: 79 mg/l, Scenedesmus subspicatus
EC₅₀, 96 hours: 640 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms
EC₅₀, 48 hours: 2100 mg/l, Activated sludge

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Acute 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 toxicity - aquatic invertebrates**
EC₅₀, 48 hours: 29 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**
EC₅₀, > 96 hours: 100 mg/l, Scenedesmus subspicatus

**Acute toxicity - terrestrial**
EC₅₀, > 14 days: 1000 mg/kg, Eisenia Fetida (Earthworm)

---

**SALICYLIC ACID**

**Acute aquatic toxicity**

**Acute toxicity - fish**
LC₅₀, 48 hours: 90 mg/l, Leuciscus idus (Golden orfe)

**Acute toxicity - microorganisms**
EC₅₀, > 3 hours: 3200 mg/l, Activated sludge

---

**TRIETHYLENETETRAMINE**

**Acute aquatic toxicity**

**Acute toxicity - fish**
LC₅₀, 96 hours: 330 mg/l, Pimephales promelas (Fat-head Minnow)
LC₅₀, 96 hours: 570 mg/l, Poecilia reticulata (Guppy)

**Acute toxicity - aquatic invertebrates**
EC₅₀, 48 hours: 31 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**
EC₅₀, 72 hours: 20 mg/l, Selenastrum capricornutum

**Acute toxicity - microorganisms**
EC₅₀, > 3 hours: 800 mg/l, Activated sludge

---

**Persistence and degradability**

There are no data on the degradability of this product.

**Bioaccumulative potential**

No data available on bioaccumulation.

**Partition coefficient**
Not determined.

**Mobility in soil**
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**
- UN No. (TDG) 2735
- UN No. (IMDG) 2735
- UN No. (ICAO) 2735
- UN No. (DOT) UN2735
# FLO-ROK CRACKFAST RESIN | PART B

### UN proper shipping name

#### Proper shipping name (TDG)
AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 2-PIPERAZIN-1-YLETHYLAMINE, 1,3-CYCLOHEXANEBIS(METHYLAMINE))

#### Proper shipping name (IMDG)
AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 2-PIPERAZIN-1-YLETHYLAMINE, 1,3-CYCLOHEXANEBIS(METHYLAMINE))

#### Proper shipping name (ICAO)
AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 2-PIPERAZIN-1-YLETHYLAMINE, 1,3-CYCLOHEXANEBIS(METHYLAMINE))

#### Proper shipping name (DOT)
AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 2-PIPERAZIN-1-YLETHYLAMINE, 1,3-CYCLOHEXANEBIS(METHYLAMINE))

### Transport hazard class(es)

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>DOT hazard class</td>
</tr>
<tr>
<td>8</td>
<td>DOT hazard label</td>
</tr>
<tr>
<td>8</td>
<td>TDG class</td>
</tr>
<tr>
<td>8</td>
<td>TDG label(s)</td>
</tr>
<tr>
<td>8</td>
<td>IMDG Class</td>
</tr>
<tr>
<td>8</td>
<td>ICAO class/division</td>
</tr>
</tbody>
</table>

### Transport labels

- DOT transport labels

### Packing group

<table>
<thead>
<tr>
<th>Description</th>
<th>Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG Packing Group</td>
<td>II</td>
</tr>
<tr>
<td>IMDG packing group</td>
<td>II</td>
</tr>
<tr>
<td>ICAO packing group</td>
<td>II</td>
</tr>
<tr>
<td>DOT packing group</td>
<td>II</td>
</tr>
</tbody>
</table>

### 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.
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%
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%
2-Piperazin-1-ylethylamine
Present.
20-50%

Diethylenetriamine
Present.
<0.5%

Pennsylvania "Right To Know" List
The following ingredients are listed or exempt:

Benzy1 alcohol
Present.
5-10%

Cyclohexanone
Present.
<0.5%

3-Aminopropyl(dimethyl)amine
Present.
>0.5 <1.0%

Triethylenetetramine
Present.
>0.5 <1.0%

2-Piperazin-1-ylethylamine
Present.
20-50%

Diethylenetriamine
Present.
<0.5%

Inventories
Canada - DSL/NDSL
The following ingredients are listed or exempt:

Benzy1 alcohol
DSL

2,4,6-tris(dimethylaminomethyl)phenol
DSL

3-Aminopropyl(dimethyl)amine
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

Revision comments
NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date
14/03/2019

Version number
1.001

Supersedes date
23/03/2016

SDS No.
20369

Hazard statements in full
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.