SAFETY DATA SHEET
FR5 MAX | Part A (Resin)


1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>FR5 MAX</th>
<th>Part A</th>
</tr>
</thead>
</table>

Recommended use of the chemical and restrictions on use

<table>
<thead>
<tr>
<th>Restriction on use</th>
<th>Resin.</th>
</tr>
</thead>
</table>

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>

<table>
<thead>
<tr>
<th>Web</th>
<th><a href="http://www.ucanfast.com">www.ucanfast.com</a></th>
</tr>
</thead>
</table>

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

Emergency telephone number

<table>
<thead>
<tr>
<th>Emergency telephone</th>
<th>CHEMTRAC 800-424-9300 (24 hr. Emergency)</th>
</tr>
</thead>
</table>

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>
<tbody>
<tr>
<td>Health hazards</td>
<td>Eye Irrit. 2A - H319 Skin Sens. 1 - H317</td>
</tr>
</tbody>
</table>

Label elements

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

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

<table>
<thead>
<tr>
<th>Hazard statements</th>
<th>H226 Flammable liquid and vapor.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H317 May cause an allergic skin reaction.</td>
</tr>
<tr>
<td></td>
<td>H319 Causes serious eye irritation.</td>
</tr>
</tbody>
</table>
FR5 MAX | Part A (Resin)

Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing vapor/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 If on skin: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
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.

Contains

2-HYDROXYPROPYL METHACRYLATE

3. Composition/information on ingredients

Mixtures

2-HYDROXYPROPYL METHACRYLATE
CAS number: 27813-02-1

VINYL TOLUENE
CAS number: 25013-15-4

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

Inhalation May cause respiratory irritation.

Ingestion May cause discomfort if swallowed.

Skin contact May cause skin irritation/eczema.

Eye contact Irritation of eyes and mucous membranes.

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.
FR5 MAX | Part A (Resin)

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
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/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
FR5 MAX | Part A (Resin)

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.
- **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

- 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>
</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>&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>
<td>Not determined.</td>
</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>
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<tr>
<td>Solubility(ies)</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not determined.</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) 159.52

Skin sensitization
Sensitizing.

Inhalation
Gas or vapor in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

Ingestion
May cause discomfort if swallowed.

Skin Contact
May cause sensitisation by skin contact. May cause irritation.

Eye contact
Irritating to eyes.

Acute and chronic health hazards
Irritating to eyes. May cause sensitisation by skin contact.

Route of exposure
Skin and/or eye contact.

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

Medical considerations
Skin disorders and allergies.

12. Ecological information

Bioaccumulative potential
No data available on bioaccumulation.

Partition coefficient
Not determined.

Mobility in soil
Mobility
Not applicable.

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

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

Revision date: 14/03/2019 Supersedes date: 23/03/2016
FR5 MAX | Part A (Resin)

DOT packing group III

Environmental hazards
Environmentally Hazardous Substance No.

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

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
The following ingredients are not listed or exempt:

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
The following ingredients are not listed or exempt:

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:

CAA Accidental Release Prevention
The following ingredients are not 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
Some of the ingredients are listed or exempt.

TITANIUM DIOXIDE Carcinogen.

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:

*VINYL TOLUENE*
Present.  
5-10%

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

*QUARTZ SAND*
Present.  
20-50%

*TITANIUM DIOXIDE*
Present.  
>0.5 <1.0%

*VINYL TOLUENE*
Present.  
5-10%

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

*QUARTZ SAND*
Present.  
20-50%

*TITANIUM DIOXIDE*
Present.  
>0.5 <1.0%

*VINYL TOLUENE*
Present.  
5-10%

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

*QUARTZ SAND*
Present.  
20-50%

*TITANIUM DIOXIDE*
Present.  
>0.5 <1.0%

*VINYL TOLUENE*
Present.  
5-10%

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

*QUARTZ SAND*
Present.  
20-50%

*TITANIUM DIOXIDE*
Present.  
>0.5 <1.0%
FR5 MAX | Part A (Resin)

VINYL TOLUENE
Present.
5-10%

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

QUARTZ SAND
Present.
20-50%

TITANIUM DIOXIDE
Present.
>0.5 <1.0%

VINYL TOLUENE
Present.
5-10%

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

CALCIUM CARBONATE
DSL
20-50%

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
2.000

Supersedes date
23/03/2016

SDS No.
20343

Hazard statements in full
H226 Flammable liquid and vapor.
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
FR5 MAX | Part B (Hardener)


1. Identification

Product identifier
Product name FR5 MAX | Part B

Recommended use of the chemical and restrictions on use
Restriction on use 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.
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.
P411 Store at temperatures not exceeding 25°C /77°F.
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.

Contains
BENZOYL PEROXIDE

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>GLYCERINE</th>
<th>20-50%</th>
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<tbody>
<tr>
<td>CAS number: 56-81-5</td>
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<table>
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<tr>
<th>BENZOYL PEROXIDE</th>
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</tr>
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<tbody>
<tr>
<td>CAS number: 94-36-0</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BENZOIC ACID,NONYL ESTER,BRANCHED AND LINEAR</th>
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<tr>
<td>CAS number: 670241-72-2</td>
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<table>
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<th>ZINC DISTEARATE</th>
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<td>CAS number: 557-05-1</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CARBON BLACK</th>
<th>&lt;0.5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 1333-86-4</td>
<td></td>
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</tbody>
</table>

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.
FR5 MAX | Part B (Hardener)

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  Oxides of carbon.

products

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
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 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

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.
### FR5 MAX | Part B (Hardener)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper/lower flammability or</td>
<td>Not determined</td>
</tr>
<tr>
<td>explosive limits</td>
<td></td>
</tr>
<tr>
<td>Other flammability</td>
<td>Not determined</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>1.5 - 1.6</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>&gt;50°C</td>
</tr>
<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>Not determined</td>
</tr>
</tbody>
</table>

#### 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.
FR5 MAX | Part B (Hardener)

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.

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
FR5 MAX | Part B (Hardener)

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
Hazards 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.

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
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.
None of the ingredients are listed or exempt.

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:

**CARBON BLACK**
Carcinogen.

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:

**CARBON BLACK**
Present.
<0.5%

**BENZOYL PEROXIDE**
Present.
10-15%

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

**CARBON BLACK**
Present.
<0.5%

**ZINC DISTEARATE**
Present.
1-5%

**BENZOYL PEROXIDE**
Present.
10-15%

**GLYCERINE**
Present.
20-50%
Michigan "Right To Know" List
The following ingredients are listed or exempt:

CARBON BLACK
Present. 
<0.5%

ZINC DISTEARATE
Present. 
1-5%

BENZOYL PEROXIDE
Present. 
10-15%

GLYCERINE
Present. 
20-50%

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

CARBON BLACK
Present. 
<0.5%
FR5 MAX | Part B (Hardener)

**ZINC DISTEARATE**
Present.
1-5%

**BENZOYL PEROXIDE**
Present.
10-15%

**GLYCERINE**
Present.
20-50%

**Inventories**
Canada - DSL/NDSL

All the 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**
2.002

**Supersedes date**
23/03/2016

**SDS No.**
20483

**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.