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# Safety Data Sheet

## METHACRYLIC ACID TECHNICAL

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Version: 1.0

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(30041967/SDS\_GEN\_CA/EN)

### 1. Identification

**Product identifier used on the label**

**METHACRYLIC ACID TECHNICAL**

**Recommended use of the chemical and restriction on use**

Recommended use\*: Monomer.

Recommended use\*: for industrial use only

Unsuitable for use: cosmetics; Pharmaceutical

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

BASF Canada Inc.

5025 Creekbank Road

Building A, Floor 2

Mississauga, ON, L4W 0B6, CANADA

Telephone: +1 289 360-1300

**Emergency telephone number**

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: (800) 454-COPE (2673)

**Other means of identification**

Synonyms: Methacrylic acid crude

### 2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

**Classification of the product**

Flam. Liq.	4	Flammable liquids
Acute Tox.	4 (oral)	Acute toxicity
Acute Tox.	4 (Inhalation - mist)	Acute toxicity

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Acute Tox.	3 (dermal)	Acute toxicity
Skin Corr.	1A	Skin corrosion
Eye Dam.	1	Serious eye damage
STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure
Aquatic Acute	3	Hazardous to the aquatic environment - acute

### Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

H227	Combustible liquid.
H311	Toxic in contact with skin.
H335	May cause respiratory irritation.
H314	Causes severe skin burns and eye damage.
H302 + H332	Harmful if swallowed or if inhaled.
H402	Harmful to aquatic life.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe dust/gas/mist/vapours.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P310	Immediately call a POISON CENTER or physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P370 + P378	In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Precautionary Statements (Disposal):

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Dispose of contents/container in accordance with local regulations.

### Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. See section 12 - Results of PBT and vPvB assessment.

## 3. Composition / Information on Ingredients

### According to Hazardous Products Regulations (HPR) (SOR/2015-17)

methacrylic acid

CAS Number: 79-41-4

Content (W/W):  $\geq 98.0$  -  $\leq 100.0\%$

Synonym: 2-Methyl-2-propenoic acid; Methacrylic acid

Acetic acid

CAS Number: 64-19-7

Content (W/W):  $\geq 0.0$  -  $\leq 1.2\%$

Synonym: Acetic acid; Glacial acetic acid

acrylic acid

CAS Number: 79-10-7

Content (W/W):  $\geq 0.0$  -  $\leq 1.0\%$

Synonym: 2-Propenoic acid; Acrylic acid

isobutyric acid

CAS Number: 79-31-2

Content (W/W):  $\geq 0.0$  -  $\leq 0.2\%$

Synonym: 2-Methylpropanoic acid

## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

#### If on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

#### If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

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### If swallowed:

Do not induce vomiting. Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: Overexposure may cause: corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps, Inhalation may provoke the following symptoms: irritation of respiratory tract  
Hazards: Risk of pulmonary edema. Symptoms can appear later.

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

#### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

dry powder, water spray, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Use extinguishing measures to suit surroundings.

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

Risk of violent self-polymerization if overheated in a container. Cool endangered containers with water-spray.

The product is combustible. See SDS section 7 - Handling and storage.

### Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus. Special protective equipment for firefighters

### Further information:

Extend fire extinguishing measures to the surroundings. Fight fire from maximum distance. Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

In case of a fire in the vicinity a restabilization system should be used if the temperature in the bulk storage-tank reaches 45°C. Evacuate area of all unnecessary personnel. In case of a fire in the vicinity evacuate all personnel in a greater area if the temperature in the bulk storage-tank reaches 60°C.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### Impact Sensitivity:

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Remarks: Based on the chemical structure there is no shock-sensitivity.

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### 6. Accidental release measures

#### Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

Release of substance/product can cause fire or explosion. Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

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

Handle in accordance with good industrial hygiene and safety practice.

Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools. Avoid contact with the skin, eyes and clothing.

Take off immediately all contaminated clothing.

#### **Environmental precautions**

Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants.

Discharge into the environment must be avoided. Collect contaminated washing water for appropriate disposal.

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

For large amounts: Pump off product.

Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations. Ensure adequate ventilation. Suppress gases/vapours/mists with water spray jet. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Cleaning operations should be carried out only while wearing breathing apparatus. Pick up with suitable appliance and dispose of.

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### 7. Handling and Storage

#### **Precautions for safe handling**

The substance/ product may be handled only by appropriately trained personnel. Facility parts must be checked for polymer residues and cleaned on regular basis in order to avoid hazardous reactions.

Ensure thorough ventilation of stores and work areas. Encapsulation or exhaust ventilation required. When filling, transferring, or emptying of containers, adequate local exhaust ventilation is necessary. Vent waste air to atmosphere only through suitable separators. Check the condition of seals and connector screw threads.

The temperatures which must be avoided are to be considered. Protect against heat. Protect from direct sunlight. Protect contents from the effects of light. Do not open warm or swollen product containers. Remove persons to safety and alert fire brigade.

Because of the possible separation from the stabilizer the product should never be partially melted and taken. Ensure that there is no crystallized product in the container before use.

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Ensure adequate inhibitor and dissolved oxygen level.

Avoid inhalation of dusts/mists/vapours. Avoid aerosol formation. Avoid all direct contact with the substance/product.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Substance/product can form explosive mixture with air. Ground all transfer equipment properly to prevent electrostatic discharge. It is recommended that all conductive parts of the machinery are grounded. Explosion-proof equipment is not necessary when loading and processing of the product takes place at a minimum of 5 °C below the flash point.

Heated containers should be cooled to prevent polymerization. If exposed to fire, keep containers cool by spraying with water. Emergency cooling must be provided for the eventuality of a fire in the vicinity.

Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

Temperature class: T2 (Autoignition temperature >300 °C).

### Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Prior to storage ensure that the transfer equipment used and the intended storage containers do not contain other substances/products. Before transfer to stock the identity of the product must be proved to be without doubt. The entrance to storage rooms is to be granted only to appropriately trained personnel.

The stabilizer is only effective in the presence of oxygen. Maintain contact with atmosphere containing 5 - 21% oxygen. Never use tanks with inert-gas installation for storage.

Risk of polymerization. Protect against heat. Protect from direct sunlight. Avoid UV-light and other radiation with high energy. Protect against contamination.

In case of bulk storage, the storage-tanks should at least be equipped with two high temperature alert devices.

Do not store product below the indicated minimum temperature, because crystallization should be absolutely avoided.

Even if the product is stored and handled as prescribed/indicated it should be used up within the indicated duration of storage.

Storage stability:

Storage temperature: 18 - 35 °C

Storage duration: 12 Months

The stated storage temperature should be noted.

Avoid prolonged storage.

This product should be processed as soon as possible.

Ensure adequate inhibitor and dissolved oxygen level.

Do not store with less than 10 % headspace above liquid.

Storage stability is based upon ambient temperatures and conditions described.

It is recommended to keep a safe distance of +2 degrees above the crystallization range.

The product is stabilized, the shelf life should be noted.

Storage temperature: 45 °C

A restabilization system should be used if the temperature in the bulk storage-tank reaches the indicated value.

Storage temperature: 60 °C

All personnel in a greater area should be evacuated if the temperature in the bulk storage-tank reaches the indicated value.

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### 8. Exposure Controls/Personal Protection

#### Components with occupational exposure limits

Acetic acid	ACGIH, US:	STEL value 15 ppm ;
	ACGIH, US:	TWA value 10 ppm ;
	OSHA Z1:	PEL 10 ppm 25 mg/m3 ;
acrylic acid	ACGIH, US:	TWA value 2 ppm ;
	ACGIH, US:	Skin Designation ; Danger of cutaneous absorption
methacrylic acid	ACGIH, US:	TWA value 20 ppm ;

#### Personal protective equipment

##### **Respiratory protection:**

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

##### **Hand protection:**

Chemical resistant protective gloves

##### **Eye protection:**

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

##### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

##### **General safety and hygiene measures:**

Avoid inhalation of vapour. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

### 9. Physical and Chemical Properties

Form:	liquid	
Odour:	vinegar-like	
Odour threshold:	not determined	
Colour:	colourless	
pH value:	2.0 - 2.2 ( 100 g/l, 20 °C)	
Melting point:	15.4 - 15.5 °C Literature data.	
Boiling point:	162 °C ( 1,013 hPa) Literature data.	
Flash point:	67 °C Literature data.	(closed cup)
Flammability:	Combustible liquid.	(derived from flash point)

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Lower explosion limit:	1.6 %(V) ( 65 °C) For liquids not relevant for classification and labelling.	
Upper explosion limit:	8.1 %(V) ( 96 °C) For liquids not relevant for classification and labelling.	
Autoignition:	400 °C Literature data.	
SADT:	Not a substance/mixture liable to self-decomposition according to GHS.	
Vapour pressure:	0.97 hPa ( 20 °C) Literature data.	(calculated)
Density:	1.01 g/cm3 ( 20 °C) Literature data.	
	0.9831 g/cm3 ( 50 °C)	(OECD Guideline 109)
Relative density:	1.01 ( 20 °C)	
Vapour density:	2.96 ( 20 °C) Heavier than air.	(calculated)
Partitioning coefficient n- octanol/water (log Pow):	0.93 ( 22 °C) Literature data.	(other)
Self-ignition temperature:	Based on its structural properties the product is not classified as self- igniting.	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	1.38 mPa.s ( 25 °C) Literature data.	
Viscosity, kinematic:	( 20 °C) not determined	
Particle size:	The substance / product is marketed or used in a non solid or granular form.	
Solubility in water:	98 g/l ( 20 °C)	
Solubility (qualitative):	miscible solvent(s): organic solvents,	
Molar mass:	86.09 g/mol	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Other Information:	Study scientifically not justified.	

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.



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Corrosion to metals:  
Corrodes metals in the presence of water.

Oxidizing properties:  
Based on its structural properties the product is not classified as oxidizing.

Formation of flammable gases:	Remarks:	Forms no flammable gases in the presence of water.
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### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

Explosion and fire hazard exists under confined conditions. Ignitable air mixtures can form when the product is heated above the flash point and/or when sprayed or atomized. Formation of explosive gas/air mixtures.

Polymerization coupled with heat formation.

Risk of spontaneous polymerization by oxygen depletion of the liquid phase. Risk of spontaneous polymerization when heated or in the presence of UV radiation. Risk of spontaneous and violent self-polymerization if inhibitor is lost or product is exposed to excessive heat. Polymerization produces gases which may burst closed or confined containers. Reactions may cause ignition.

Risk of spontaneous polymerization in the presence of starters for radical chain reactions (e.g. peroxides). Reacts with nitric acid. Risk of spontaneous polymerization in the presence of oxidizing agents.

Hazardous reactions in presence of mentioned substances to avoid.

The product is stabilized against spontaneous polymerization prior to despatch. The product is stable if stored and handled as prescribed/indicated.

### Conditions to avoid

Avoid heat. Avoid oxygen content above the product of less than 5 %. Avoid UV-light and other radiation with high energy. Avoid direct sunlight. Avoid prolonged storage. Avoid inhibitor loss. Avoid excessive temperatures. Avoid all sources of ignition: heat, sparks, open flame. Avoid freezing. Avoid moisture. Avoid temperatures below the crystallization range.

Do not blanket with nitrogen.

### Incompatible materials

radical formers, free radical initiators, peroxides, mercaptans, nitro-compounds, perborates, azides, ether, ketones, aldehydes, amines, nitrates, nitrites, oxidizing agents, reducing agents, strong bases, alkaline reactive substances, acid anhydrides, acid chlorides, concentrated mineral acids, metal salts  
Inert gas

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

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## 11. Toxicological information

### Primary routes of exposure

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Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after single ingestion. Of pronounced toxicity after short-term skin contact. Of moderate toxicity after short-term inhalation.

#### Oral

Type of value: LD50

Species: rat (male)

Value: 1,320 mg/kg (similar to OECD guideline 401)

#### Inhalation

Type of value: LC50

Species: rat (male/female)

Value: > 3.6 - < 4.7 mg/l (similar to OECD guideline 403)

Exposure time: 4 h

An aerosol was tested.

The test result applies only to the substance transferred into respirable aerosol (particles < 20 µm).

#### Dermal

Type of value: LD50

Species: rabbit (no data)

Value: 500 - 1,000 mg/kg

#### Assessment other acute effects

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

#### Irritation / corrosion

Assessment of irritating effects: Highly corrosive! Damages skin and eyes.

#### Skin

Species: rabbit

Result: Corrosive.

Method: OECD Guideline 404

#### Eye

Species: rabbit

Result: Risk of serious damage to eyes.

Method: Draize test

#### Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

#### Buehler test

Species: guinea pig

Result: Non-sensitizing.

Method: similar to OECD guideline 406

#### Aspiration Hazard

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not applicable

### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation.

#### Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture.

#### Carcinogenicity

Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Teratogenicity

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies. The chemical structure does not suggest a specific alert for such an effect. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

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## 12. Ecological Information

### Toxicity

#### Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

#### Toxicity to fish

LC50 (96 h) 85 mg/l, Oncorhynchus mykiss (Fish test acute, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

#### Aquatic invertebrates

EC50 (48 h) > 130 mg/l, Daphnia magna (Daphnia test acute, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

#### Aquatic plants

EC50 (72 h) 45 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201)

The statement of the toxic effect relates to the analytically determined concentration.

#### Chronic toxicity to fish

No observed effect concentration (35 d) 10 mg/l, Brachydanio rerio (OECD Guideline 210, Flow through.)

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### Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d)  $\geq$  53 mg/l, Daphnia magna (OECD Guideline 211, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

### Assessment of terrestrial toxicity

No effects at the highest test concentration.

### Soil living organisms

Toxicity to soil dwelling organisms:

EC10 (28 d) 1000 mg/L, soil dwelling microorganisms (OECD Guideline 217, artificial soil)

### Toxicity to terrestrial plants

No data available.

### Other terrestrial non-mammals

No data available.

## **Microorganisms/Effect on activated sludge**

### Toxicity to microorganisms

DIN 38412 Part 8 aerobic

bacterium/EC10 (17.0 h): 100 mg/l

## **Persistence and degradability**

### Assessment biodegradation and elimination (H<sub>2</sub>O)

Readily biodegradable (according to OECD criteria).

### Elimination information

86 % CO<sub>2</sub> formation relative to the theoretical value (28 d) (OECD 301D; 92/69/EWG, C.4-E) (aerobic, activated sludge, domestic)

### Assessment of stability in water

In contact with water the substance will hydrolyse slowly.

### Information on Stability in Water (Hydrolysis)

$t_{1/2}$  > 28 d (25 °C, pH value 7), (OECD Guideline 111, pH 7)

## **Bioaccumulative potential**

### Assessment bioaccumulation potential

No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

### Bioaccumulation potential

No data available.

## **Mobility in soil**

### Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is not expected.

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### Additional information

Other ecotoxicological advice:

The product should not be allowed to reach either ground or open waters.

## 13. Disposal considerations

## 14. Transport Information

### Land transport

TDG

Hazard class: 8  
Packing group: II  
ID number: UN 2531  
Hazard label: 8  
Proper shipping name: METHACRYLIC ACID, STABILIZED

### Sea transport

IMDG

Hazard class: 8  
Packing group: II  
ID number: UN 2531  
Hazard label: 8  
Marine pollutant: NO  
Proper shipping name: METHACRYLIC ACID, STABILIZED

### Air transport

IATA/ICAO

Hazard class: 8  
Packing group: II  
ID number: UN 2531  
Hazard label: 8  
Proper shipping name: METHACRYLIC ACID, STABILIZED

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical DSL, CA released / listed

#### NFPA Hazard codes:

Health: 3 Fire: 2 Reactivity: 2 Special:

### Assessment of the hazard classes according to UN GHS criteria (most recent version):

Flam. Liq. 4 Flammable liquids  
Acute Tox. 4 (oral) Acute toxicity

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Acute Tox.	3 (dermal)	Acute toxicity
Acute Tox.	4 (Inhalation - mist)	Acute toxicity
Skin Corr./Irrit.	1A	Skin corrosion/irritation
STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure
Aquatic Acute	3	Hazardous to the aquatic environment - acute
Eye Dam./Irrit.	1	Serious eye damage/eye irritation

### 16. Other Information

#### SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2024/06/07

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use.

Any other intended applications should be discussed with the manufacturer.

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