

Safety Data Sheet

Hydroxypropyl Acrylate (HPA)

Revision date : 2023/01/18

Version: 6.0

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(30041308/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Hydroxypropyl Acrylate (HPA)

Recommended use of the chemical and restriction on use

Recommended use*: Monomer.

Recommended use*: Monomer.

Unsuitable for use: Not intended for sale to or use by the general public.

* 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 CORPORATION

100 Park Avenue

Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: acrylates

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Acute Tox.

4 (oral)

Acute toxicity

Acute Tox.

4 (dermal)

Acute toxicity

Skin Corr./Irrit.

1B

Skin corrosion/irritation

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| | | |
|-----------------|----|--|
| Eye Dam./Irrit. | 1 | Serious eye damage/eye irritation |
| Aquatic Acute | 2 | Hazardous to the aquatic environment - acute |
| Skin Sens. | 1B | Skin sensitization |
| Aquatic Chronic | 3 | Hazardous to the aquatic environment - chronic |

Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

| | |
|-------------|--|
| H317 | May cause an allergic skin reaction. |
| H314 | Causes severe skin burns and eye damage. |
| H302 + H312 | Harmful if swallowed or in contact with skin |
| H412 | Harmful to aquatic life with long lasting effects. |
| H401 | Toxic to aquatic life. |

Precautionary Statements (Prevention):

| | |
|------|--|
| P280 | Wear protective gloves, protective clothing and eye protection or face protection. |
| P260 | Do not breathe dust/gas/mist/vapours. |
| P273 | Avoid release to the environment. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| 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. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P301 + P330 + P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. |
| P361 + P364 | Take off immediately all contaminated clothing and wash it before reuse. |

Precautionary Statements (Storage):

| | |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

Precautionary Statements (Disposal):

| | |
|------|---|
| P501 | 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.

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Labeling of special preparations (GHS):

Risk of hazardous polymerization under certain conditions (e.g. elevated temperatures, low inhibitor and oxygen concentration).

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

hydroxypropyl acrylate

CAS Number: 25584-83-2

Content (W/W): 98.0 - 100.0%

Synonym: 2-Propenoic acid monoester with 1,2-propanediol

acrylic acid

CAS Number: 79-10-7

Content (W/W): 0.1 - 0.5%

Synonym: 2-Propenoic acid; Acrylic acid

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. Remove affected person from danger area. Immediately remove contaminated clothing. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Avoid contact with the skin, eyes and 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 soap and water, seek medical attention.

If in eyes:

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

If swallowed:

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

Most important symptoms and effects, both acute and delayed

Symptoms: Overexposure may cause: corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, allergic contact dermatitis, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no

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known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

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.

Burning produces harmful and toxic fumes. Do not breathe gas/vapour.

Shut off or stop released substance/product under safe conditions. Do not release chemically contaminated water into drains, soil or surface water. Sufficient measures must be taken to retain the water used for extinguishing. Dispose of contaminated water and soil according to local regulations.

Advice for fire-fighters

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. 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:

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

6. Accidental release measures

Further accidental release measures:

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

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Further accidental release measures:

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.

Further accidental release measures:

Pack in tightly closed containers for disposal.

Personal precautions, protective equipment and emergency procedures

Avoid all sources of ignition: heat, sparks, open flame. Avoid contact with the skin, eyes and clothing. Ensure adequate ventilation. Breathing protection required.

Take off immediately all contaminated clothing. Keep people away and stay on the upwind side. Beware of pits and confined spaces.

Use antistatic tools. Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions

Substance/product is RCRA hazardous due to its properties.

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.

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. Do not open warm or swollen product containers. Remove persons to safety and alert fire brigade.

The temperatures which must be avoided are to be considered. Protect against heat. Protect from direct sunlight. Protect contents from the effects of light.

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.

Ensure adequate inhibitor and dissolved oxygen level. Avoid all sources of ignition: heat, sparks, open flame.

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.

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Containers should be grounded against electrostatic charge. 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. Avoid influence of heat.

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

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. Protect contents from the effects of light. 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: < 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.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

| | | |
|--------------|------------|---|
| acrylic acid | ACGIH, US: | TWA value 2 ppm ; |
| | ACGIH, US: | Skin Designation ; Danger of cutaneous absorption |
| | ACGIH, US: | Skin Designation ; Danger of cutaneous absorption |

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Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed. At concentrations < 250 ppm, use a chemical cartridge respirator. At concentrations > 250 ppm, use an air-supplied or self-contained breathing apparatus.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

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. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Eye wash fountains and safety showers must be easily accessible.

9. Physical and Chemical Properties

| | | |
|------------------------|---|-------------------------------|
| Form: | liquid | |
| Odour: | acrylic-like | |
| Odour threshold: | not determined | |
| Colour: | colourless | |
| pH value: | (20 °C) neutral, miscible | |
| Melting point: | -23.4 °C Literature data. | |
| Boiling point: | 198.5 °C (1,013.25 hPa) Cannot be distilled without decomposition at normal pressure. | |
| Flash point: | 99 °C | (ISO 2719, closed cup) |
| Flammability: | hardly combustible | (derived from flash point) |
| Lower explosion limit: | For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point. | |
| Upper explosion limit: | For liquids not relevant for classification and labelling. | |
| Autoignition: | 308 °C | (DIN EN 14522) |
| SADT: | Not a substance/mixture liable to self-decomposition according to GHS. | |

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| | | |
|---|---|---|
| Vapour pressure: | 0.01 hPa (20 °C) dynamic | (measured) |
| Density: | 1.054 g/cm3 (20 °C) 1.0256 g/cm3 (50 °C) | (ISO 2811-3) (OECD Guideline 109) |
| Relative density: | 0.1049 (25 °C) Literature data. | |
| Vapour density: | 4.5 (20 °C) Heavier than air. | (calculated) |
| Partitioning coefficient n-octanol/water (log Pow): | 0.2 (25 °C) | (measured) |
| Self-ignition temperature: | 20 °C Based on its structural properties the product is not classified as self-igniting. | |
| Viscosity, dynamic: | 9.1 mPa.s (20 °C) | (calculated (from kinematic viscosity)) |
| Viscosity, kinematic: | 8.63 mm2/s (20 °C) | (OECD 114) |
| Solubility in water: | miscible | |
| Molar mass: | 130.14 g/mol | |
| Evaporation rate: | Value can be approximated from Henry's Law Constant or vapor pressure. | |

10. Stability and Reactivity

Reactivity

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

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

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

| | | |
|---------------------------|----------------|-------|
| Reactions with water/air: | Reaction with: | water |
|---------------------------|----------------|-------|

| | |
|------------------|----|
| Flammable gases: | no |
| Toxic gases: | no |

| | | |
|-------------------------------|----------|--|
| Formation of flammable gases: | Remarks: | Forms no flammable gases in the presence of water. |
|-------------------------------|----------|--|

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.

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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.

Radical formation can cause exothermic polymerization. Reacts with peroxides and other radical components. Risk of spontaneous polymerization in the presence of starters for radical chain reactions (e.g. peroxides). Reacts with nitric acid. Polymerizes explosively in contact with strong oxidizing agents. 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 polyvinylchloride
Inert gas

Hazardous decomposition products

Decomposition products:

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

11. Toxicological information

Primary routes of exposure

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 moderate toxicity after short-term skin contact. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard. The European Union (EU) has classified the substance as "toxic" after inhalation. The European Union (EU) has classified the substance as "toxic" after dermal exposure. The European Union (EU) has classified the substance as "toxic" after oral exposure.

Oral

Type of value: LD50

Species: rat (male)

Value: 820 mg/kg (similar to OECD guideline 401)

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Inhalation

Type of value: LC50

Species: rat

Value: > 0.38 mg/l (similar to OECD guideline 403)

Exposure time: 8 h

The vapour was tested.

Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.

Dermal

Type of value: LD50

Species: rat (male/female)

Value: > 1,000 mg/kg (OECD Guideline 402)

No mortality was observed.

Assessment other acute effects

Assessment of STOT single:

The toxicity of the product is based on its corrosivity.

Irritation / corrosion

Assessment of irritating effects: Corrosive! Damages skin and eyes.

Skin

Species: rabbit

Result: Corrosive.

Method: BASF-Test

Eye

Species: rabbit

Result: Corrosive.

Method: BASF-Test

Sensitization

Assessment of sensitization: Sensitization after skin contact possible.

Mouse Local Lymph Node Assay (LLNA)

Species: mouse

Result: sensitizing

Method: similar to OECD guideline 429

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. No substance-specific organotoxicity was observed after repeated administration to animals. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Genetic toxicity

Assessment of mutagenicity: Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there

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is no indication that the substance is mutagenic. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Carcinogenicity

Assessment of carcinogenicity: In long-term animal studies in which the substance was given by inhalation, a carcinogenic effect was not observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

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

Experiences in humans

Danger of skin sensitization on repeated contact.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Acutely toxic for 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) 3.61 mg/l, Pimephales promelas (Fish test acute, Flow through.)

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

Aquatic invertebrates

EC50 (48 h) 24 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

The details of the toxic effect relate to the nominal concentration.

Aquatic plants

EC50 (96 h) 6.98 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201, static)

The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to fish

No data available.

Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d) 0.86 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Microorganisms/Effect on activated sludge

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Toxicity to microorganisms

DIN EN ISO 8192-OECD 209-88/302/EEC,P. C aerobic
activated sludge/EC20 (0.5 h): approx. 1,000 mg/l

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

Readily biodegradable (according to OECD criteria).

Elimination information

90 - 100 % DOC reduction (14 d) (OECD 301 A (new version)) (aerobic, activated sludge, domestic)

Assessment of stability in water

In contact with water the substance will hydrolyse slowly.

Information on Stability in Water (Hydrolysis)

$t_{1/2}$ > 490 d, (28 d) (25 °C, pH value 3), (OPPTS 835.2130, other)

$t_{1/2}$ > 230 d, (28 d) (25 °C, pH value 7), (OPPTS 835.2130, pH 7)

$t_{1/2}$ 12.27 d, (7 d) (25 °C, pH value 11), (OPPTS 835.2130, other)

Bioaccumulative potential

Assessment bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

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.

Additional information

Sum parameter

Chemical oxygen demand (COD): 1,705 mg/g

Biochemical oxygen demand (BOD) Incubation period 5 d: < 10 mg/g

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. Do not discharge into drains/surface waters/groundwater.

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Container disposal:

Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Dispose of in accordance with national, state and local regulations.

Uncleaned empties should be disposed of in the same manner as the contents.

14. Transport Information

Land transport

USDOT

Hazard class: 8

Packing group: II

ID number: UN 1760

Hazard label: 8

Proper shipping name: CORROSIVE LIQUID, N.O.S. (contains HYDROXYPROPYL ACRYLATE, STABILIZED)

Sea transport

IMDG

Hazard class: 8

Packing group: II

ID number: UN 1760

Hazard label: 8

Marine pollutant: NO

Proper shipping name: CORROSIVE LIQUID, N.O.S. (contains HYDROXYPROPYL ACRYLATE, STABILIZED)

Air transport

IATA/ICAO

Hazard class: 8

Packing group: II

ID number: UN 1760

Hazard label: 8

Proper shipping name: CORROSIVE LIQUID, N.O.S. (contains HYDROXYPROPYL ACRYLATE, STABILIZED)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

CERCLA RQ

5000 LBS

100 LBS

CAS Number

79-10-7

75-56-9

Chemical name

acrylic acid

Propylene oxide

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

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WARNING: This product can expose you to chemicals including PROPYLENE OXIDE, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 3 Fire: 1 Reactivity: 2 Special:

HMIS III rating

Health: 3 Flammability: 1 Physical hazard: 2

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

| | | |
|-------------------|------------|--|
| Skin Corr./Irrit. | 1B | Skin corrosion/irritation |
| Skin Sens. | 1B | Skin sensitization |
| Acute Tox. | 4 (dermal) | Acute toxicity |
| Acute Tox. | 4 (oral) | Acute toxicity |
| Eye Dam./Irrit. | 1 | Serious eye damage/eye irritation |
| Aquatic Acute | 2 | Hazardous to the aquatic environment - acute |
| Aquatic Chronic | 3 | Hazardous to the aquatic environment - chronic |

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2023/01/18

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.

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