

# Safety Data Sheet

## 2-ETHYLHEXYL ACRYLATE

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### 1. Identification

**Product identifier used on the label**

**2-ETHYLHEXYL ACRYLATE**

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

Recommended use\*: Chemical

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**

Synonyms: 2-Propenoic acid, 2-ethylhexyl ester

### 2. Hazards Identification

According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

**Classification of the product**

Flam. Liq.	4	Flammable liquids
Skin Irrit.	2	Skin irritation
Skin Sens.	1B	Skin sensitization
STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure

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Aquatic Acute 2  
Aquatic Chronic 3

Hazardous to the aquatic environment - acute  
Hazardous to the aquatic environment - chronic

### Label elements

Pictogram:



Signal Word:  
Warning

Hazard Statement:

H227 Combustible liquid.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.  
H401 Toxic to aquatic life.

Precautionary Statements (Prevention):

P280 Wear protective gloves and eye protection or face protection.  
P261 Avoid breathing mist or vapour or spray.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P312 Call a POISON CENTER or physician if you feel unwell.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical attention.  
P332 + P313 If skin irritation occurs: Get medical attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
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):

P501 Dispose of contents/container in accordance with local regulations.

### Hazards not otherwise classified

No applicable information available.

Labeling of special preparations (GHS):

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Risk of hazardous polymerization under certain conditions (e.g. elevated temperatures, low inhibitor and oxygen concentration). Do not blanket with nitrogen.

### 3. Composition / Information on Ingredients

#### **According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

2-ethylhexyl acrylate

CAS Number: 103-11-7

Content (W/W):  $\geq 80.0$  -  $\leq 100.0\%$

Synonym: 2-Propenoic acid 2-ethylhexyl ester; 2-Ethylhexyl acrylate

The actual concentration is withheld as a trade secret.

### 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.

##### **If on skin:**

Wash thoroughly with soap and water

##### **If in eyes:**

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.

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

Symptoms: Overexposure may cause: convulsions, lethargy

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

#### **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

#### 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.

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

#### 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.

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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.

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### Environmental precautions

Discharge into the environment must be avoided.

### 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.

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.

### 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.

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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.

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.

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

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

Storage stability is based upon ambient temperatures and conditions described.

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

No substance specific occupational exposure limits known.

### **Advice on system design:**

Ensure adequate ventilation.

### **Personal protective equipment**

#### **Respiratory protection:**

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

Observe OSHA regulations for respirator use (29 CFR 1910.134).

#### **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 contact with the skin, eyes and clothing. Avoid inhalation of vapour. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Handle in accordance with good industrial hygiene and safety practice.

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### 9. Physical and Chemical Properties

Physical state:	liquid	
Form:	liquid	
Odour:	ester-like	
Odour threshold:	not determined	
Colour:	colourless	
pH value:	7.3 - 8.2	(OECD Guideline 105)
	(approx. 9.3 mg/l, 25 °C)	
Melting point:	-90 °C	
	Literature data.	
Freezing point:	No data available.	
Boiling point:	215 °C	
	( 1,013 hPa)	
	Literature data.	
Boiling range:	No data available.	
Flash point:	86 °C	(closed cup)
	Literature data.	
Flammability:	Combustible liquid.	(derived from flash point)
Lower explosion limit:	0.9 %(V)	
	( 82.5 °C)	
	For liquids not relevant for classification and labelling.	
Upper explosion limit:	6.0 %(V)	
	( 126 °C)	
	For liquids not relevant for classification and labelling.	
Autoignition:	252 °C	
	Literature data.	
SADT:	Not a substance/mixture liable to self-decomposition according to GHS.	
Vapour pressure:	0.24 hPa	(measured)
	( 25 °C)	
	Literature data.	
Density:	0.88 g/cm <sup>3</sup>	
	( 20 °C)	
	Literature data.	
Relative density:	0.88	
	( 20 °C)	
Relative vapour density:	6.4	(calculated)
	( 20 °C)	
	Heavier than air.	
Partitioning coefficient n-octanol/water (log Pow):	4.64	(OECD Guideline 107)
	( 25 °C)	
Self-ignition temperature:	Based on its structural properties the product is not classified as self-igniting.	
Thermal decomposition:	No data available.	
Viscosity, dynamic:	1.75 mPa.s	(OECD Guideline 114)
	( 20 °C)	
	1.19 mPa.s	(OECD Guideline 114)
	( 40 °C)	
Viscosity, kinematic:	( 20 °C)	
	not determined	

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Solubility in water: 9.6 mg/l  
( 25 °C)  
Solubility (quantitative): No data available.  
Solubility (qualitative): miscible  
solvent(s): organic solvents,  
Molecular weight: 184.28 g/mol  
Evaporation rate: No data available.

### Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form.

## 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.

Formation of

Remarks:

flammable gases:

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.

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.

Do not blanket with nitrogen.

### **Incompatible materials**



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radical formers, free radical initiators, peroxides, mercaptans, nitro-compounds, perborates, azides, ether, ketones, aldehydes, amines, nitrates, nitrites, oxidizing agents, reducing agents, strong bases, 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.

Thermal decomposition:

No data available.

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## 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 low toxicity after single ingestion. Virtually nontoxic after a single skin contact. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard.

#### Oral

Type of value: LD50

Species: rat (male/female)

Value: approx. 4,435 mg/kg (BASF-Test)

#### Inhalation

Species: rat

Value: (IRT)

Exposure time: 8 h

The vapour was tested.

No mortality within the stated exposition time as shown in animal studies.

#### Dermal

Type of value: LD50

Species: rabbit (no data)

Value: 7,522 mg/kg

#### Assessment other acute effects

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

#### Irritation / corrosion

Assessment of irritating effects: Not irritating to the eyes. Skin contact causes irritation.

#### Skin

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Species: rabbit  
Result: Irritant.  
Method: BASF-Test

*Information on: 2-ethylhexyl acrylate*

*Species: rabbit  
Result: Irritant.  
Method: BASF-Test*

-----  
Eye

Species: rabbit  
Result: non-irritant  
Method: OECD Guideline 405

Sensitization

Assessment of sensitization: Sensitization after skin contact possible.

Mouse Local Lymph Node Assay (LLNA)

Species: mouse  
Result: skin sensitizing  
Method: OECD Guideline 429

Mouse Local Lymph Node Assay (LLNA)

Species: mouse  
Result: skin sensitizing  
Method: OECD Guideline 429

Aspiration Hazard

No aspiration hazard expected.

### Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The substance may cause damage to the olfactory epithelium after repeated inhalation. After repeated exposure the prominent effect is local irritation.

Genetic toxicity

Assessment of mutagenicity: In the majority of studies performed with microorganisms and in mammalian cell culture, a mutagenic effect was not found. A mutagenic effect was also not observed in in vivo tests.

Carcinogenicity

Assessment of carcinogenicity: Long-term exposure to highly irritating concentrations resulted in skin tumors in animals. A carcinogenic effect in humans can be excluded after brief skin contact. IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

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

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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.

## 12. Ecological Information

### Toxicity

#### Aquatic toxicity

Assessment of aquatic toxicity:

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

#### Toxicity to fish

LC50 (96 h) 1.81 mg/l, Oncorhynchus mykiss (OECD Guideline 203, semistatic)

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

#### Aquatic invertebrates

EC50 (48 h) 1.3 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

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

#### Aquatic plants

EC50 (72 h) 1.71 mg/l (growth rate), Scenedesmus subspicatus (OECD Guideline 201, static)

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

#### Chronic toxicity to fish

Study not necessary due to exposure considerations.

#### Chronic toxicity to aquatic invertebrates

EC10 (21 d) 0.91 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

#### Assessment of terrestrial toxicity

No effects at the highest test concentration.

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

#### Soil living organisms

Toxicity to soil dwelling organisms:

EC50 (28 d) > 1,000 mg/kg, soil dwelling microorganisms (OECD Guideline 217, natural soil)

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

#### Toxicity to terrestrial plants

No data available.

#### Other terrestrial non-mammals

No data available.

### Microorganisms/Effect on activated sludge

#### Toxicity to microorganisms

DIN EN ISO 8192 aquatic

activated sludge, domestic/EC20 (30 min): > 1,000 mg/l

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Nominal concentration.

### Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O)  
Readily biodegradable (according to OECD criteria).

#### Elimination information

70 - 80 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic)

Assessment of stability in water  
In contact with water the substance will hydrolyse slowly.

Information on Stability in Water (Hydrolysis)  
 $t_{1/2}$  18.5 h (25 °C, pH value 11.0), (other, other)

$t_{1/2}$  210 h (25 °C, pH value 7.0), (other, pH 7)

$t_{1/2}$  533 h (25 °C, pH value 3.0), (other, other)

### Bioaccumulative potential

Assessment bioaccumulation potential  
Does not accumulate in organisms.

Bioaccumulation potential  
Bioconcentration factor: 347 (28 d), Cyprinus carpio (OECD Guideline 305)  
Does not accumulate in organisms.

### 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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## 13. Disposal considerations

**Waste disposal of substance:**  
Incinerate or dispose of in a RCRA-licensed facility. Do not discharge into drains/surface waters/groundwater.

**Container disposal:**  
Empty containers with less than 1 inch of residue may be landfilled at a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. If containers are not empty, they must be disposed of in a RCRA-licensed facility.

Flammable vapors may exist in containers in which residues of this product remain. Dispose of in accordance with national, state and local regulations.

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## 14. Transport Information

**Land transport**  
USDOT

Classified as combustible liquid in containers greater than 119

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gallons.

### Sea transport IMDG

Not classified as a dangerous good under transport regulations

### Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

### Further information

The following classification applies when exceeding 119 gallons.

Land Transport USDOT: NA 1993 COMBUSTIBLE LIQUID, N.O.S. (\*Technical Name\*)PG III

For Technical name, please see Bill of Lading.

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US

All substances are TSCA listed and active.

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

### State regulations

#### State RTK

#### CAS Number

#### Chemical name

PA

103-11-7

2-ethylhexyl acrylate

NJ

103-11-7

2-ethylhexyl acrylate

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

**WARNING:** This product can expose you to chemicals including 2-ETHYLHEXYL ACRYLATE, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### **NFPA Hazard codes:**

Health: 2

Fire: 2

Reactivity: 2

Special:

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

Flam. Liq.	4	Flammable liquids
STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure
Skin Irrit.	2	Skin irritation
Aquatic Acute	2	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic
Acute Tox.	5 (oral)	Acute toxicity
Skin Sens.	1B	Skin sensitization

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2025/10/06

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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