

# Safety Data Sheet

## 2EHA Heavies

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### 1. Identification

#### Product identifier used on the label

## 2EHA Heavies

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

Recommended use\*: Product for mining and tunneling.

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 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, residue, stabilized

Synonyms: 2-Ethylhexyl Acrylate Residue

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### 2. Hazards Identification

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

#### Classification of the product

|                   |   |   |
|-------------------|---|---|
| Flam. Liq.        | 4 | Flammable liquids                         |
| Skin Corr./Irrit. | 2 | Skin corrosion/irritation                 |
| Skin Sens.        | 1 | Skin sensitization                        |
| STOT RE           | 2 | Specific target organ toxicity — repeated |

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Aquatic Acute 3 exposure  
Hazardous to the aquatic environment - acute

### Label elements

Pictogram:



Signal Word:  
Warning

Hazard Statement:

H227 Combustible liquid.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H373 May cause damage to organs (Blood) through prolonged or repeated exposure.  
H402 Harmful to aquatic life.

Precautionary Statements (Prevention):

P280 Wear protective gloves and eye protection or face protection.  
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.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P333 + P311 If skin irritation or rash occurs: Call a POISON CENTER or physician.  
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.  
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 + P235 Store in a well-ventilated place. Keep cool.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

### Hazards not otherwise classified

No applicable information available.

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## 3. Composition / Information on Ingredients

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

2-ethylhexyl acrylate  
CAS Number: 103-11-7  
Content (W/W): 10.0 - 20.0%

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

phenothiazine

CAS Number: 92-84-2

Content (W/W): 0.5 - 1.5%

Synonym: No data available.

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### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

Remove contaminated clothing.

##### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

##### If on skin:

After contact with skin, wash immediately with plenty of water and soap. Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. If symptoms persist, seek medical advice.

##### 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 water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

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

Symptoms: 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.

*Information on: 2-ethylhexyl acrylate*

*Symptoms: Overexposure may cause: convulsions, lethargy*

#### 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, administer corticosteroid dose aerosol to prevent pulmonary edema.

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### 5. Fire-Fighting Measures

#### Extinguishing media

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Suitable extinguishing media:  
carbon dioxide, dry powder, water spray, foam

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
Risk of violent self-polymerization if overheated in a container.

### Advice for fire-fighters

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

### Further information:

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

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Take appropriate protective measures.

Ensure adequate ventilation. Use personal protective clothing. Breathing protection required.

### Environmental precautions

Do not discharge into waterways or sewer systems without proper authorization.

This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

### Methods and material for containment and cleaning up

Spills should be contained, solidified, and placed in suitable containers for disposal. Use spark-proof tools and explosion-proof equipment.

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## 7. Handling and Storage

### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. 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.

Protection against fire and explosion:

Substance/product can form explosive mixture with air. Ground all transfer equipment properly to prevent electrostatic discharge. 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. Sealed containers should be protected against heat as this results in pressure build-up. Avoid influence of heat.

### Conditions for safe storage, including any incompatibilities

Segregate from combustible materials.

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Further information on storage conditions: 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.

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

Risk of polymerization. Protect from direct sunlight. Exothermic polymerization may occur if storage conditions are exceeded or inhibitors become insufficient.

Storage stability:

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.

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## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

|               |            |   |
|---------------|------------|---|
| phenothiazine | ACGIH, US: | TWA value 5 mg/m <sup>3</sup> ;                   |
|               | ACGIH, US: | Skin Designation ; Danger of cutaneous absorption |

### **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. 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 skin. Avoid inhalation of vapour. Safety showers must be easily accessible.

Handle in accordance with good industrial hygiene and safety practice.

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## 9. Physical and Chemical Properties

|                  |                                      |
|------------------|--------------------------------------|
| Form:            | liquid                               |
| Odour:           | strong specific odour                |
| Odour threshold: | No applicable information available. |
| Colour:          | black                                |
| pH value:        | No applicable information available. |
| Melting point:   | -90 °C                               |
|                  | Based on known data of one component |

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|                            |   |              |
|----------------------------|---|--------------|
| Boiling point:             | 215 °C<br>( 1,013 hPa)<br>Information based on the main component/s.  |              |
| Sublimation point:         | No applicable information available.  |              |
| Flash point:               | 71.1 °C   | (closed cup) |
| Flammability:              | Combustible liquid.   |              |
| Lower explosion limit:     | 0.9 %(V)<br>( 82.5 °C)<br>The product has not been tested. The statement has been derived from the properties of the individual components. |              |
| Upper explosion limit:     | 6.0 %(V)<br>( 126 °C)<br>The product has not been tested. The statement has been derived from the properties of the individual components.  |              |
| Autoignition:              | 252 °C<br>The product has not been tested. The statement has been derived from the properties of the individual components.                 |              |
| Vapour pressure:           | 0.12 mmHg<br>( 20 °C)   |              |
| Density:                   | 0.74 g/cm <sup>3</sup><br>( 20 °C)  |              |
| Vapour density:            | No applicable information available.  |              |
| Thermal decomposition:     | No decomposition if stored and handled as prescribed/indicated.   |              |
| Viscosity, dynamic:        | 1.19 mPa.s<br>( 40 °C)  | (OECD 114)   |
| Viscosity, kinematic:      | No applicable information available.  |              |
| % volatiles:               | < 1 %   |              |
| Solubility in water:       | not applicable  |              |
| Solubility (quantitative): | No applicable information available.  |              |
| Solubility (qualitative):  | miscible<br>solvent(s): organic solvents,   |              |
| Evaporation rate:          | No applicable information available.  |              |

## 10. Stability and Reactivity

### Reactivity

No applicable information available.

### 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.

Risk of spontaneous and violent self-polymerization if inhibitor is lost or product is exposed to excessive heat. Risk of spontaneous polymerization when heated or in the presence of UV radiation. With unstabilised product, spontaneous polymerisation may occur e.g. through ambient heat.

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Polymerization coupled with heat formation. Polymerization produces gases which may burst closed or confined containers. Reactions may cause ignition.

Risk of spontaneous polymerization by oxygen depletion of the liquid phase.

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 %. Do not blanket with nitrogen.

Avoid UV-light and other radiation with high energy. Avoid direct sunlight. Avoid prolonged storage.

Avoid excessive temperatures. Avoid all sources of ignition: heat, sparks, open flame. Avoid inhibitor loss.

### Incompatible materials

polyvinylchloride, 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, strong acids

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

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: No applicable information available.

#### Oral

Type of value: ATE

Value: > 5,000 mg/kg

#### Inhalation

Type of value: ATE

Value: > 20.0000 mg/l

Determined for vapor

Type of value: ATE

Value: > 5.0000 mg/l

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Determined for mist

### Dermal

Type of value: ATE

Value: > 5,000 mg/kg

### Assessment other acute effects

No applicable information available.

### Irritation / corrosion

Assessment of irritating effects: Causes skin irritation.

### Skin

*Information on: 2-ethylhexyl acrylate*

*Species: rabbit*

*Result: Irritant.*

*Method: BASF-Test*

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### Eye

Not expected to be an eye irritant.

### Sensitization

Assessment of sensitization: Sensitization after skin contact possible. The substance may be photo-sensitizing. The product has not been tested. The statement has been derived from the properties of the individual components.

The substance is photosensitizing in test with animals.

*Information on: phenothiazine*

*Guinea pig maximization test*

*Species: guinea pig*

*Result: sensitizing*

*Method: OECD Guideline 406*

*Information on: 2-ethylhexyl acrylate*

*Mouse Local Lymph Node Assay (LLNA)*

*Species: mouse*

*Result: sensitizing*

*Method: OECD Guideline 429*

*Mouse Local Lymph Node Assay (LLNA)*

*Species: mouse*

*Result: sensitizing*

*Method: OECD Guideline 429*

-----

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

Assessment of repeated dose toxicity: Prolonged and repeated exposure may cause blood disorders.

*Information on: phenothiazine*

*Assessment of repeated dose toxicity: The substance may cause damage to the hematological system after repeated ingestion.*

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### Genetic toxicity

Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect.

### Carcinogenicity

Assessment of carcinogenicity: 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: Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

### Teratogenicity

Assessment of teratogenicity: Based on the ingredients, there is no suspicion of a teratogenic effect.

### Experiences in humans

Can irritate the respiratory tract.

### Other Information

Causes tumours by the lifelong administration of severely irritant concentrations. Caused by the chronic irritation.

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

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## 12. Ecological Information

### **Toxicity**

#### Toxicity to fish

*Information on: 2-ethylhexyl acrylate*

*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

*Information on: 2-ethylhexyl acrylate*

*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

*Information on: 2-ethylhexyl acrylate*

*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 aquatic invertebrates

*Information on: 2-ethylhexyl acrylate*

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

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### Soil living organisms

*Information on: 2-ethylhexyl acrylate*

*Toxicity to soil dwelling organisms:*

*other (28 d) > 1,000 mg/kg, soil dwelling microorganisms (OECD 217)*

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

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

#### Toxicity to microorganisms

*Information on: 2-ethylhexyl acrylate*

*DIN EN ISO 8192 aquatic*

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

*Nominal concentration.*

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### **Bioaccumulative potential**

#### Bioaccumulation potential

*Information on: 2-ethylhexyl acrylate*

*Bioconcentration factor: 347 (28 d), Cyprinus carpio (OECD-Guideline 305)*

*Does not accumulate in organisms.*

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### **Additional information**

Other ecotoxicological advice:

Attention - The product has not yet been fully tested. Do not discharge product into the environment without control.

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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.

Dispose of in accordance with national, state and local regulations.

### **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.

WARNING: Empty containers may still contain hazardous residue. 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 gallons.

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### 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

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## 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.

### State regulations

| <u>State RTK</u> | <u>CAS Number</u> | <u>Chemical name</u>  |
|------------------|-------------------|-----------------------|
| PA               | 92-84-2           | phenothiazine         |
|                  | 103-11-7          | 2-ethylhexyl acrylate |
| MA               | 92-84-2           | phenothiazine         |
|                  | 103-11-7          | 2-ethylhexyl acrylate |
| NJ               | 92-84-2           | phenothiazine         |
|                  | 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: 1 Special:

### **HMIS III rating**

Health: 2<sup>a</sup> Flammability: 2 Physical hazard: 1

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## 16. Other Information

### **SDS Prepared by:**

BASF NA Product Regulations  
SDS Prepared on: 2022/02/23

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

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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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