

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : ESD-170-B
 Product code : ESD-170-B
 Other means of identification : ESD-170-B/1SF, ESD-170-B/HGSF, ESD-170-B/Q

1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Protective Industrial Polymers
 7875 Bliss Parkway
 North Ridgeville, Ohio 44039 - USA-Ohio
 T 440-327-0015
www.protectpoly.com

1.4. Emergency telephone number

Emergency number : Chemtrec: 800-427-9300 (Outside USA) 703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute toxicity (oral) Category 4 H302
 Acute toxicity (inhalation:dust,mist) Category 4 H332
 Skin corrosion/irritation Category 2 H315
 Serious eye damage/eye irritation Category 1 H318
 Skin sensitization Category 1 H317
 Specific target organ toxicity (single exposure) Category 2 H371

Full text of H statements : see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

Contains : Benzenemethanol; (4,4'-diaminodicyclohexyl)methane; Formaldehyde, polymer with benzenamine, hydrogenated; N-(2-Aminoethyl)-1,2-ethanediamine; Paraformaldehyde; 2,2-Bis(4-hydroxyphenyl)propane

Hazard statements (GHS-US) : H302+H332 - Harmful if swallowed or if inhaled
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H318 - Causes serious eye damage
 H371 - May cause damage to organs (respiratory system) (Inhalation)

Precautionary statements (GHS-US) : P260 - Do not breathe vapors
 P261 - Avoid breathing vapors
 P264 - Wash hands, forearms and face thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product

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P271 - Use only outdoors or in a well-ventilated area
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective clothing
P301+P312 - If swallowed: Call a doctor if symptoms persist. if you feel unwell
P302+P352 - If on skin: Wash with plenty of soap
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a doctor if symptoms persist
P312 - Call a doctor if symptoms persist. if you feel unwell
P321 - Specific treatment (see a doctor if symptoms do not go away. on this label)
P330 - Rinse mouth
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container to in accordance with local regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Benzenemethanol	(CAS No) 100-51-6	15 - 40	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
Formaldehyde, polymer with benzenamine, hydrogenated	(CAS No) 135108-88-2	15 - 40	Acute Tox. 4 (Oral), H302
N-(2-Aminoethyl)-1,2-ethanediamine	(CAS No) 111-40-0	< 20	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312
2,2-Bis(4-hydroxyphenol)propane	(CAS No) 80-05-7	< 10	Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401
(4,4'-diaminodicyclohexyl)methane	(CAS No) 1761-71-3	0 - 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Skin Sens. 1B, H317 STOT SE 2, H371 Aquatic Acute 2, H401
Paraformaldehyde	(CAS No) 30525-89-4	0 - 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact : Burns. May cause an allergic skin reaction.
Symptoms/injuries after eye contact : Serious damage to eyes.

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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol resistant foam, water, water fog, CO2, dry chemical, dry sand, limestone powder.

5.2. Special hazards arising from the substance or mixture

Fire hazard : No data available on direct fire hazard.
Explosion hazard : No data available on direct explosion hazard.
Reactivity : Stable under normal conditions.

5.3. Advice for firefighters

Firefighting instructions : Fire-fighter should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers. Dam up the liquid spill.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe vapors. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.
Incompatible materials : No known incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Benzenemethanol (100-51-6)

Not applicable

(4,4'-diaminodicyclohexyl)methane (1761-71-3)

Not applicable

Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2)

Not applicable

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N-(2-Aminoethyl)-1,2-ethanediamine (111-40-0)		
ACGIH	ACGIH TWA (ppm)	1 ppm (Diethylene triamine; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	URT & eye irr
Paraformaldehyde (30525-89-4)		
Not applicable		
2,2-Bis(4-hydroxyphenol)propane (80-05-7)		
Not applicable		

8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: protective gloves.
Eye protection	: Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear respiratory protection.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: amber
Odor	: Ammonia odour
Odor threshold	: No data available
pH	: Alkaline
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: ≥ 124 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Solubility	: Water: Solubility in water of component(s) of the mixture : •: 4.4 g/100ml (50 °C) •: 1.23 g/100ml (20 °C) •: Complete •: moderately soluble •: 0.012 g/100ml
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

reactive metals (Al, K, Zn ...). materials reactive with hydroxyl compounds. organic acids.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Inhalation:dust,mist: Harmful if inhaled.

ESD-170-B	
ATE US (oral)	662.140 mg/kg body weight
ATE US (dust, mist)	3.619 mg/l/4h
Benzenemethanol (100-51-6)	
LD50 oral rat	1620 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Inconclusive, insufficient data)
ATE US (oral)	1620.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h
(4,4'-diaminodicyclohexyl)methane (1761-71-3)	
LD50 oral rat	625 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rabbit	2110 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)
ATE US (oral)	625.000 mg/kg body weight
ATE US (dermal)	2110.000 mg/kg body weight
Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2)	
LD50 oral rat	367 mg/kg
ATE US (oral)	367.000 mg/kg body weight
N-(2-Aminoethyl)-1,2-ethanediamine (111-40-0)	
LD50 oral rat	1553 mg/kg body weight (Rat; Other; Experimental value)
LD50 dermal rabbit	1045 mg/kg body weight (Rabbit; Experimental value; Other)
ATE US (oral)	1553.000 mg/kg body weight
ATE US (dermal)	1045.000 mg/kg body weight
Paraformaldehyde (30525-89-4)	
LD50 oral rat	800 mg/kg (Rat; Literature study)
LC50 inhalation rat (mg/l)	1.07 mg/l/4h (Rat; Literature study)
ATE US (oral)	800.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	1.070 mg/l/4h
ATE US (dust, mist)	1.070 mg/l/4h
2,2-Bis(4-hydroxyphenyl)propane (80-05-7)	
LD50 oral rat	3300 mg/kg (Rat)
LD50 dermal rabbit	3600 mg/kg (Rabbit)
ATE US (oral)	3300.000 mg/kg body weight
ATE US (dermal)	3600.000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.
pH: Alkaline

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Serious eye damage/irritation	: Causes serious eye damage. pH: Alkaline
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause damage to organs (respiratory system) (Inhalation).
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Benzenemethanol (100-51-6)	
LC50 fish 1	460 mg/l (LC50; EPA OPP 72-1; 96 h; Pimephales promelas; Static system; Fresh water; Experimental value)
(4,4'-diaminodicyclohexyl)methane (1761-71-3)	
EC50 Daphnia 2	6.84 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	141.42-200,ErC50; DIN 38412-9; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value
Threshold limit algae 2	141.42-200,EbC50; DIN 38412-9; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value
N-(2-Aminoethyl)-1,2-ethanediamine (111-40-0)	
LC50 fish 1	430 mg/l (LC50; EU Method C.1; 96 h; Poecilia reticulata; Semi-static system; Fresh water; Experimental value)
EC50 Daphnia 1	64.6 mg/l (EC50; EU Method C.2; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	1164 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum; Static system; Fresh water; Experimental value)
Threshold limit algae 2	10 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum; Static system; Fresh water; Experimental value)
Paraformaldehyde (30525-89-4)	
LC50 fish 1	60 mg/l (LC50; 96 h)
2,2-Bis(4-hydroxyphenyl)propane (80-05-7)	
LC50 fish 1	9.9 mg/l (LC50; 96 h)
EC50 Daphnia 1	3.9 mg/l (EC50; 48 h)
Threshold limit algae 1	2.7 - 3.1,EC50; 96 h

12.2. Persistence and degradability

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Persistence and degradability	Not established.
Benzenemethanol (100-51-6)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.6 g O ₂ /g substance
Chemical oxygen demand (COD)	2.4 g O ₂ /g substance

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Benzenemethanol (100-51-6)	
ThOD	2.5 g O ₂ /g substance
(4,4'-diaminodicyclohexyl)methane (1761-71-3)	
Persistence and degradability	Not readily biodegradable in water. Low potential for adsorption in soil. Photolysis in the air.
N-(2-Aminoethyl)-1,2-ethanediamine (111-40-0)	
Persistence and degradability	Readily biodegradable in water. Readily biodegradable in the soil. Adsorbs into the soil. Low potential for mobility in soil. Photooxidation in the air.
Paraformaldehyde (30525-89-4)	
Persistence and degradability	Biodegradability in water: no data available. No (test)data on mobility of the substance available.
2,2-Bis(4-hydroxyphenyl)propane (80-05-7)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil. Photolysis in the air. Photodegradation in the air.
Chemical oxygen demand (COD)	0.036 g O ₂ /g substance
ThOD	2.5 g O ₂ /g substance

12.3. Bioaccumulative potential

Benzenemethanol (100-51-6)	
Log Pow	1-1.1, Experimental value; Other; 20 °C
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
(4,4'-diaminodicyclohexyl)methane (1761-71-3)	
BCF fish 1	<= <=6<60, BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 4 weeks; Cyprinus carpio; Flow-through system; Fresh water; Read-across
Log Pow	2.03 - 3.26 (2.03; Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
N-(2-Aminoethyl)-1,2-ethanediamine (111-40-0)	
BCF fish 1	0.3 - 6.3 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 8 weeks; Cyprinus carpio; Flow-through system; Fresh water; Experimental value; Fresh weight)
Log Pow	-1.58 (Calculated; 20 °C; -5.58; Calculated; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Paraformaldehyde (30525-89-4)	
Log Pow	-0.63 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.
2,2-Bis(4-hydroxyphenyl)propane (80-05-7)	
BCF fish 1	5.1 - 67.7 (BCF)
Log Pow	3.32 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

ESD-170-B	
Ecology - soil	No Data Available.
Benzenemethanol (100-51-6)	
Surface tension	0.04 N/m (20 °C)
(4,4'-diaminodicyclohexyl)methane (1761-71-3)	
Log Koc	Koc, SRC PCKOCWIN v2.0; 103.1; Calculated value; log Koc; SRC PCKOCWIN v2.0; 2.0132; Calculated value
N-(2-Aminoethyl)-1,2-ethanediamine (111-40-0)	
Log Koc	log Koc, Other; 3.4 - 4.6; Experimental value; GLP
Ecology - soil	Soil contaminant.

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Contain and dispose of waste according to local regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN3066 Paint, 8, III
UN-No.(DOT) : UN3066
Proper Shipping Name (DOT) : Paint
Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT) : 8 - Corrosive



Packing group (DOT) : III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx) : 173
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Special Provisions (49 CFR 172.102) : B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks
IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672)
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling
TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP
DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel
DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"
Other information : No supplementary information available.

TDG

No additional information available

Transport by sea

UN-No. (IMDG) : ----- TO BE COMPLETED/CALCULATED -----

Air transport

UN-No. (IATA) : ----- TO BE COMPLETED/CALCULATED -----

SECTION 15: Regulatory information

15.1. US Federal regulations

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Listed on the United States TSCA (Toxic Substances Control Act) inventory

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Benzenemethanol (100-51-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
(4,4'-diaminodicyclohexyl)methane (1761-71-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
N-(2-Aminoethyl)-1,2-ethanediamine (111-40-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Paraformaldehyde (30525-89-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	1000 lb
2,2-Bis(4-hydroxyphenyl)propane (80-05-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

N-(2-Aminoethyl)-1,2-ethanediamine (111-40-0)	
U.S. - New Jersey - Right to Know Hazardous Substance List	
Paraformaldehyde (30525-89-4)	
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	
2,2-Bis(4-hydroxyphenyl)propane (80-05-7)	
U.S. - New Jersey - Right to Know Hazardous Substance List	

SECTION 16: Other information

Other information

: Disclaimer: This SDS to the best of our knowledge conforms to the requirements of OSHA 20 CFR 1910.1200 and summarizes the health and safety hazard information and general guidance on how to safely handle the material at the date of issue. Each user must review the SDS in the context of how the product will be handled and used in the workplace.

Full text of H-phrases:

H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H371	May cause damage to organs
H401	Toxic to aquatic life

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SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product