

M745-1430 Cyanoacrylate Adhesive

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SDS ID: 102154

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SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Name : M745-1430 Cyanoacrylate Adhesive
 Product code : **M745-1430**
 Other means of identification : Mohawk Cyanoacrylate Adhesive

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cyanoacrylate Adhesive
 Use of the substance/mixture : Adhesive

1.3. Supplier

Supplier

RPM Industrial Coatings Group
 3194 B Hickory Blvd.
 Hudson, NC 28638
 Phone: 828-728-8266
 Fax: 828-728-2409

1.4. Emergency telephone number

Emergency number : CHEMTREC (800) 424-9300
 CHEMTREC® International Emergency number: 703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 4	H227	Combustible liquid
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

: Warning

Hazard statements (GHS US) :

: H227 - Combustible liquid
 H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H335 - May cause respiratory irritation

Precautionary statements (GHS US) :

: P261 - Avoid breathing fume, vapors.
 P264 - Wash hands thoroughly after handling.

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P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear eye protection, protective gloves.
P302+P352 - If on skin: Wash with plenty of soap and water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Adhesive containing cyanoacrylates. Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children. Contact with skin through cellulose based fabrics (i.e cotton, rayon, linen, viscose) generates heat and may cause burns.

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
ethyl-2-cyanoacrylate	CAS-No.: 7085-85-0	≥ 75 – < 90	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, consult a doctor.

First-aid measures after skin contact : Cyanoacrylates bond skin in seconds. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Do not remove clothing if it sticks to the skin. Do not pull solidified product away from the skin. Any bonded skin should be gently peeled apart, preferably after soaking in warm, soapy water. In the case of large spills on the skin, superficial burns may occur - treat accordingly. If irritation persists, consult a doctor.

First-aid measures after eye contact : Cyanoacrylates bond eyelids in seconds. Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If the eyelid is bonded closed, do not force open. Cover with a gauze pad soaked in warm water. Get prompt medical attention in the case of solid particles of cured cyanoacrylate getting trapped behind the eye, there is a possibility of causing abrasive damage. The affected eye should be covered with wet dressing until the separation process is complete, usually 1-3 days.

First-aid measures after ingestion : Ingestion unlikely. The product will polymerize immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard.

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4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms	: Cyanoacrylates bond skin and eyelids in seconds. Keep out of the reach of children. Causes skin and eye irritation. May cause respiratory irritation. Certain reactions were observed for sensitive people.
Expected Symptoms/Effects, Acute and Delayed Symptoms/effects	: Bonds skin and eyes in seconds. : Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause shortness of breath, tightness of the chest, a sore throat and cough.
Symptoms/effects after skin contact	: Cyanoacrylates bond skin in seconds. May cause irritation to skin. Redness.
Symptoms/effects after eye contact	: Cyanoacrylates bond eyelids in seconds. Causes serious eye irritation. redness, itching, tears.
Symptoms/effects after ingestion	: Ingestion unlikely. The product will polymerize immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard. May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract.
Most Important Symptoms/Effects	: Bonds skin and eyes in seconds. Causes serious eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

An eyewash station should be available on the premises, near to any point of possible exposure. . Do not pull bonded skin apart. IF exposed or concerned: Get medical advice/attention.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: alcohol resistant foam. Dry powder. Carbon dioxide. Sand.
Unsuitable extinguishing media	: Solid water jet ineffective as extinguishing medium. Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: Combustible liquid.
Explosion hazard	: Prolonged exposure to fire may cause containers to rupture/explode.
Reactivity in case of fire	: May polymerize on exposure to temperature rise with pressure rise and possible bursting of container.
Hazardous decomposition products in case of fire	: Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO ₂ etc.).

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. IF exposed to fire cool the closed containers by spraying with water. Do not allow water to enter the vessels, a violent reaction may occur.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Eliminate every possible source of ignition. Ensure adequate ventilation. Avoid all contact with skin, eyes, or clothing. Handle in accordance with good industrial hygiene and safety procedures.
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6.1.1. For non-emergency personnel

Protective equipment	: Use appropriate personal protection equipment (PPE).
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. Protective gloves. (ANSI 105-2016/ EN 374-2 or equivalent). Safety glasses. (ANSI z87.1/ ISO 16321-1 or equivalent).
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Emergency procedures : Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Ventilate area. No flames, no sparks. Eliminate all sources of ignition. Use appropriate personal protection equipment (PPE). Do not touch or walk on the spilled product. Contain the spilled material by bunding.

6.2. Environmental precautions

Do not allow water (or moist air) contact with this material. Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain the spilled material by bunding. Cover spill with non combustible material, e.g.: sand, earth, vermiculite.

Methods for cleaning up : Take up small spills with dry chemical absorbent. (Do not use cloths; rags or other materials made from cellulose fibres). Use non-sparking tools. Collect spillage. Store away from other materials.

Other information : Place spent adsorbent in sealed packages and contact specialist waste disposal contractor. For disposal of contaminated materials refer to section 13 : "Disposal considerations".

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Cyanoacrylates bond skin and eyelids in seconds. Keep out of the reach of children.

Precautions for safe handling : Presents no particular risk when handled in accordance with good occupational hygiene practice. Avoid contact of substance with water. Do not get in eyes, on skin, or on clothing. Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Ambient humidity should be >35% to minimise discomfort. . Use personal protective equipment as required. Do not wear cellulose based protective clothing (i.e cotton, rayon, linen, viscose).

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke in areas where product is used. Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations. Store in accordance with local, regional, national or international regulation.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat sources, Sources of ignition, Water, humidity. Store in a dry place. Store at temperatures not exceeding 24°C / 75°F. Keep container closed when not in use.

Incompatible products : Amines. alcohols. Oxidizing agents. Water. Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Water, humidity.

Storage temperature : 2 – 24 °C

Storage area : For optimum shelf-life, it is recommended to keep the product in a refrigerated storage area.

Packaging materials : Keep only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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M745-1430 Cyanoacrylate Adhesive	
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethyl cyanoacrylate
ACGIH OEL TWA	0.2 ppm
ACGIH OEL STEL	1 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr; asthma. Notations: DSEN; RSEN
Regulatory reference	ACGIH 2024

ethyl-2-cyanoacrylate (7085-85-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethyl cyanoacrylate
ACGIH OEL TWA	0.2 ppm
ACGIH OEL STEL	1 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr; asthma. Notations: DSEN; RSEN
Regulatory reference	ACGIH 2024

8.2. Appropriate engineering controls

Appropriate engineering controls	: Work in a well-ventilated area. Ambient humidity should be >35% to minimise discomfort. . Avoid contact with skin and eyes. An eyewash station should be available on the premises, near to any point of possible exposure. . Wear recommended personal protective equipment.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses. Gloves. Normal overalls.

Materials for protective clothing:	
Do not wear cellulose based protective clothing (i.e cotton, rayon, linen, viscose). Keep suitable chemically resistant protective clothing readily available for emergency use	

Hand protection:

Protective gloves. (ANSI z87.1)

Type	Material	Permeation	Thickness (mm)	Penetration
Reusable gloves	Nitrile rubber (NBR), Fluoroelastomer (FKM)	6 (> 480 minutes)	0.5mm	

Eye protection:

Safety glasses. (ANSI z87.1)

Type	Field of application	Characteristics
Safety glasses	Droplet	clear, With side shields

Skin and body protection:

Normal overalls. Do not wear cellulose based protective clothing (i.e cotton, rayon, linen, viscose).

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Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Recommended: Filter A (brown). 30 CFR 11.150 (Respiratory Protective Devices Vapour/Gas)

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Colorless liquid.
Color	: Colorless
Odor	: Irritating sharp
Odor threshold	: No data available
pH	: Polymerizes on exposure to water (moisture)
Melting point	: -23.8 °F
Freezing point	: No data available
Boiling point	: 417 °F
Flash point	: > 180 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Combustible liquid.
Vapor pressure	: < 0.2 mm Hg
Relative vapor density at 20°C	: No data available
Particle size	: Not applicable (Liquid)
Relative density	: ≈ 1.04
Solubility	: Insoluble in water. Water: 24 µg/l @20 °C / 68 °F
Partition coefficient n-octanol/water (Log Pow)	: 0.776 @22°C (71.6 °F)
Auto-ignition temperature	: > 450 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: ≈ 1100 cP Rotational viscometer
Explosion limits	: No data available
Explosive properties	: Product is not explosive.
Oxidizing properties	: Not oxidising.

9.2. Other information

Additional information : Polymerizes on exposure to water (moisture)

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use. Hazardous polymerization may occur if exposed to high temperature.

10.2. Chemical stability

Combustible liquid. Polymerizes on exposure to water (moisture).

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10.3. Possibility of hazardous reactions

Stable under normal conditions of use. Polymerizes on exposure to temperature rise: pressure build-up may cause closed container to burst.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Direct sunlight. Extremely high or low temperatures. Moisture.

10.5. Incompatible materials

Amines. alcohols. Strong oxidizers. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx). irritating fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

ethyl-2-cyanoacrylate (7085-85-0)

LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Animal sex: male (OECD 423 method)
LD50 dermal rabbit	> 2000 mg/kg body weight OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Experimental value, Skin, 14 day(s)

Polymethyl Methacrylate (9011-14-7)

LD50 oral rat	> 5000 mg/kg LD 50 oral (rat) :
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Skin corrosion/irritation : Causes skin irritation.
pH: Polymerizes on exposure to water (moisture)

ethyl-2-cyanoacrylate (7085-85-0)

pH	substance/mixture reacts with water
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Serious eye damage/irritation : Causes serious eye irritation.
pH: Polymerizes on exposure to water (moisture)

ethyl-2-cyanoacrylate (7085-85-0)

pH	substance/mixture reacts with water
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Respiratory or skin sensitization : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Polymethyl Methacrylate (9011-14-7)

IARC group	3 - Not classifiable
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Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure : May cause respiratory irritation.

ethyl-2-cyanoacrylate (7085-85-0)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

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Viscosity, kinematic : No data available

ethyl-2-cyanoacrylate (7085-85-0)	
Viscosity, kinematic	2.493 mm ² /s
Potential Adverse human health effects and symptoms	: Cyanoacrylates bond skin and eyelids in seconds. Keep out of the reach of children. Causes skin and eye irritation. May cause respiratory irritation. Certain reactions were observed for sensitive people.
Expected Symptoms/Effects, Acute and Delayed Symptoms/effects	: Bonds skin and eyes in seconds. : Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause shortness of breath, tightness of the chest, a sore throat and cough.
Symptoms/effects after skin contact	: Cyanoacrylates bond skin in seconds. May cause irritation to skin. Redness.
Symptoms/effects after eye contact	: Cyanoacrylates bond eyelids in seconds. Causes serious eye irritation. redness, itching, tears.
Symptoms/effects after ingestion	: Ingestion unlikely. The product will polymerize immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard. May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract.
Most Important Symptoms/Effects	: Bonds skin and eyes in seconds. Causes serious eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified for aquatic hazard due to rapid polymerization in contact with water.
Ecology - water : Polymerizes on exposure to water (moisture)

12.2. Persistence and degradability

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Persistence and degradability	No data available.
ethyl-2-cyanoacrylate (7085-85-0)	
Persistence and degradability	Readily biodegradable in water.
Polymethyl Methacrylate (9011-14-7)	
Persistence and degradability	Biodegradability in water: no data available.

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (Log Pow)	0.776 @22°C (71.6 °F)
Bioaccumulative potential	Not established.
ethyl-2-cyanoacrylate (7085-85-0)	
Partition coefficient n-octanol/water (Log Pow)	0.776 (Published data)
Bioaccumulative potential	Low bioaccumulation potential. (Log Kow < 4).
Polymethyl Methacrylate (9011-14-7)	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

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Ecology - soil	Potential for mobility in soil is slight.

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Additional information	Mobility is considered to be very low due to rapid polymerization with water.
ethyl-2-cyanoacrylate (7085-85-0)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.834 (calculated value)
Ecology - soil	Highly mobile in soil.

12.5. Other adverse effects

Other information : Avoid release to the environment.




SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Disposal to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. The product can be polymerized slowly with water (ratio of 10:1, adhesive : water). Cured product can then be disposed of in land-fill sites by licensed contractors.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Recycling is preferred to disposal or incineration.
Ecological information	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
NA1993	Not applicable	3334	3334
14.2. Proper Shipping Name			
Aviation regulated liquid, n.o.s. (ethyl 2-cyanoacrylate)	Not applicable	AVIATION REGULATED LIQUID, N.O.S. (ethyl 2-cyanoacrylate)	Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)
14.3. Transport hazard class(es)			
9	Not applicable	9	9
	Not applicable		
14.4. Packing group			
Not applicable	Not applicable	Not applicable	III
14.5. Environmental hazards			
Dangerous for the environment: No	Not applicable	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

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14.6. Special precautions for user

DOT

UN-No.(DOT)	: NA1993
DOT Special Provisions (49 CFR 172.102)	: A35 - This includes any material which is not covered by any of the other classes but which has an anesthetic, narcotic, noxious or other similar properties such that, in the event of spillage or leakage on an aircraft, extreme annoyance or discomfort could be caused to crew members so as to prevent the correct performance of assigned duties. A189 - Except where the defining criteria of another class or division are met, concentrations of formaldehyde solution: a. With less than 25 percent but not less than 10 percent formaldehyde, must be described as UN3334, Aviation regulated liquid, n.o.s; and b. With less than 10 percent formaldehyde, are not subject to this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 204
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 450 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 450 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.

TDG

Not applicable

IMDG

Special provision (IMDG)	: 960
Stowage category (IMDG)	: None
Properties and observations (IMDG)	: Not subject to the provisions of this Code but may be subject to provisions governing the transport of dangerous goods by other modes.

IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 100L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 220L
Special provision (IATA)	: A27
ERG code (IATA)	: 9A

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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SARA Section 311/312 Hazard Classes	Health hazard - Skin corrosion or Irritation Fire hazard Health hazard - Serious eye damage or eye irritation Health hazard - Specific target organ toxicity (single or repeated exposure)
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All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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15.2. International regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

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Data sources : Supplier's safety documents. ECHA (European Chemicals Agency). UNECE, <http://www.unece.org/>.

Other information : None.

Full text of H-phrases	
H227	Combustible liquid
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Abbreviations and acronyms	
CAS-No.	Chemical Abstract Service number
ATE	Acute Toxicity Estimate
EC50	Median effective concentration
ED	Endocrine disrupting properties
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
VOC	Volatile Organic Compounds

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Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II IIIA)

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Indication of changes:

SDS changed sections. Composition/Information on ingredients. First aid measures. Fire fighting measures. Accidental release measures. Handling and storage. Exposure controls/personal protection. Physical and chemical properties. Stability and reactivity. Ecological information. Regulatory information.

Section	Changed item	Change	Comments
	Use of the substance/mixture	Added	No additional information available
	Version	Modified	No additional information available
	Revision date	Modified	No additional information available
	Supersedes	Modified	No additional information available
3	Composition/Information on ingredients	Modified	No additional information available
4	First-aid measures after ingestion	Modified	No additional information available
4	Expected Symptoms/Effects, Acute and Delayed	Added	No additional information available
4	Most Important Symptoms/Effects	Added	No additional information available
4	Other medical advice or treatment	Modified	No additional information available
5.2	Explosion hazard	Added	No additional information available
6	Protective equipment	Modified	No additional information available
6	Emergency procedures	Modified	No additional information available
6	For containment	Modified	No additional information available
6	Other information	Modified	No additional information available
7.1	Additional hazards when processed	Added	No additional information available
7.1	Precautions for safe handling	Modified	No additional information available
8.2	Appropriate engineering controls	Modified	No additional information available
8.2	Personal protective equipment	Modified	No additional information available
8.2	Materials for protective clothing	Modified	No additional information available
8.2	Hand protection	Modified	No additional information available
8.2	Eye protection	Modified	No additional information available
8.2	Skin and body protection	Modified	No additional information available
8.2	Respiratory protection	Modified	No additional information available
9	pH	Added	No additional information available
9	Melting point	Added	No additional information available
9	Boiling point	Modified	No additional information available

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9	Flash point	Modified	No additional information available
9	Flammability (solid, gas)	Modified	No additional information available
9	Water solubility	Added	No additional information available
9	Partition coefficient n-octanol/water (Log Pow)	Added	No additional information available
9	Viscosity, dynamic	Modified	No additional information available
9	Explosive properties	Added	No additional information available
9	Particle size	Added	No additional information available
9	Additional information	Added	No additional information available
10	Reactivity	Modified	No additional information available
10	Hazardous decomposition products	Modified	No additional information available
12.1	Ecology - water	Added	No additional information available
12.2	Persistence and degradability	Modified	No additional information available
12.4	Ecology - soil	Modified	No additional information available
13	Regional waste regulation	Added	No additional information available
13	Waste treatment methods	Modified	No additional information available
13	Sewage disposal recommendations	Removed	No additional information available
13	Additional information	Added	No additional information available
15	SARA Section 311/312 Hazard Classes	Modified	No additional information available
16	Abbreviations and acronyms	Added	No additional information available
16	Data sources	Modified	No additional information available
16	Indication of changes	Modified	No additional information available

Safety Data Sheet (SDS), USA

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