



Cyanoacrylate Gel Adhesive

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
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SECTION 1: Identification

1.1. Identification

Product form: Mixture
Name: FLEX SUPER GLUE GEL
Product code: SGGEL2X3; SGGLB20 and SGGLB15

1.2. Recommended use and restrictions on use

Use of the substance/mixture: Cyanoacrylate Adhesive
Recommended use: Adhesives, sealants

1.3. Supplier

Manufacturer

Swift Response, LLC.
2690 Weston Rd
Weston , FL 33331, USA

833-411-3539

1.4. Emergency telephone number

Emergency number: 1-800-424-9300; CHEMTREC® International Emergency number: 703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable Liquid 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

H315 - Causes skin irritation

H319 - Causes serious eye irritation

Precautionary statements (GHS US):

H335 - May cause respiratory irritation

P261 - Avoid breathing fume, vapors.

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.

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

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contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P233 - Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
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 : 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)

Not applicable

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 separated, preferably after soaking in warm, soapy water. In the case of large spills on the skin, superficial burns may occur - treat accordingly. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Cyanoacrylates bonds the 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 it open. Cover the eye with a wet dressing soaked in warm water. Get prompt medical attention if there is a possibility of solid particles of cured cyanoacrylate getting trapped behind the eye, as 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 : The product will polymerize immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard. Make sure the airways are not obstructed. Saliva will separate the solidified product from the mouth within a few hours. . If symptoms persist, consult a doctor.

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

Potential Adverse human health effects and symptoms	: Certain reactions were observed for sensitive people.
Expected Symptoms/Effects, Acute and Delayed Symptoms/effects	: Bonds skin and eyes in seconds.
Symptoms/effects after inhalation	: May cause respiratory irritation. Causes serious eye irritation.
Symptoms/effects after skin contact	: May cause respiratory irritation.
Symptoms/effects after eye contact	: Cyanoacrylates bond skin in seconds. skin irritation and erythema.
Symptoms/effects after ingestion	: Causes serious eye irritation. redness, itching, tears.
Most Important Symptoms/Effects	: 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.
	: Bonds skin and eyes in seconds.

4.3. Immediate medical attention and special treatment, if necessary

An eyewash station to Standard Z358.1-2014 should be available on the premises. Do not pull apart any bonded skin.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Alcohol-resistant foam. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: Polymerizes on exposure to water (moisture). high volume water jet or water based extinguishing media.

5.2. Specific hazards arising from the chemical

Fire hazard	: Combustible liquid.
Reactivity in case of fire	: Polymerizes on exposure to temperature rise: pressure build-up may cause closed container to burst. Polymerizes on exposure to water (moisture). Do not allow water to enter the vessels, a violent reaction may occur.
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. Fight fire with normal precautions from a reasonable distance. Cool tanks/drums with water spray/remove them into safety.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with eyes, skin and clothing.

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.
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6.1.1. For non-emergency personnel

Protective equipment	: Individual protection measures, such as personal protective equipment (PPE). Gloves. Safety glasses.
Emergency procedures	: Do not breathe vapors. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. Safety glasses. EN 166. Protective gloves. EN 374-2.
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Emergency procedures

- : Evacuate unnecessary personnel. Eliminate ignition sources. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid. 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.

Methods for cleaning up

- : Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. (Do not use cloths; rags or materials made from cellulose fibers). Place in an appropriate container and dispose of the contaminated material at a licensed site. The product can be polymerized slowly with water (10:1, adhesive : water). Cured product can then be disposed of in land-fill sites by licensed contractors.

Other information

- : Dispose of materials or solid residues at an authorized site.

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

Precautions for safe handling

- : Avoid contact of substance with water. Keep away from sources of ignition - No smoking. Do not get in eyes, on skin, or on clothing. Ensure that there is a suitable ventilation system. Do not handle in a confined space. Ambient humidity should be greater than 35% to minimise discomfort.

Hygiene measures

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

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

- : Keep in a cool, well-ventilated place away from heat. Keep away from water or moist air. Keep out of direct sunlight.

Storage conditions

- : Keep container tightly closed. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store away from the following materials: Amines.

Incompatible products

- : Amines. Oxidising agents. Alkali metals. Water. Strong bases. Strong acids. alcohols.

Incompatible materials

- : Sources of ignition. Direct sunlight. Water, humidity.

Storage temperature

- : 2 – 25 °C

Storage area

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

Packaging materials

- : Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls

- : Ensure all national/local regulations are observed. Avoid all unnecessary exposure. Provide adequate general and local exhaust ventilation.

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses. EN 166. Gloves. EN 374-2.

Materials for protective clothing:

Do not wear protective clothing based on cellulose fibers (e.g cotton, linen, viscose). Keep suitable chemically resistant protective clothing readily available for emergency use

Hand protection:

Protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration
Reusable gloves	Nitrile rubber (NBR), Fluoroelastomer (FKM), Viton® II	5 (> 240 minutes)	<0.5	

Eye protection:

Safety glasses

Type	Field of application	Characteristics
Safety glasses	Droplet	With side shields

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition
Reusable half mask	Type A - High-boiling (>65 °C) organic compounds	If conc. in air > exposure limit

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	: Clear, colorless liquid.
Color	: Colorless
Odor	: Acrid
Odor threshold	: No data available
pH	: No data available
Melting point	: -31 °C
Freezing point	: No data available
Boiling point	: 214 °C 100.3 kPa

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Flash point	: > 85 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: ≈ 0.4 mm Hg @20 °C / 68 °F
Relative vapor density at 20 °C	: No data available
Relative density	: ≈ 1.04
Solubility	: Soluble in acetone. Polymerizes on exposure to water (moisture). Water: 24 µg/l @ 20 °C & pH 6.6
Partition coefficient n-octanol/water (Log Pow)	: 0.776 @ 22 °C & pH 6.3
Auto-ignition temperature	: 480 °C 101.3 kPa
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 50000 – 90000 cP Thixotropic behaviour
Explosion limits	: No data available
Explosive properties	: Product is not explosive.
Oxidizing properties	: Not oxidising.

9.2. Other information

VOC content	: < 3 g/l
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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

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

Hardening time:	: < 50 Seconds.
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10.3. Possibility of hazardous reactions

Hazardous polymerization may occur if exposed to high temperature.

10.4. Conditions to avoid

Direct sunlight. High temperature. Water, humidity.

10.5. Incompatible materials

Amines. Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Combustion products may include the following: carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO₂ etc.).

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)

Polymethyl Methacrylate (9011-14-7)

LD50 oral rat	> 5000 mg/kg (Rat, Oral)
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Silicones and siloxanes, dimethyl-,reaction products with silica (67762-90-7)	
LD50 oral rat	> 1000 mg/kg (Rat, Oral)
LD50 dermal rat	> 2000 mg/kg (Rat, Dermal)
ethyl-2-cyanoacrylate (7085-85-0)	
LD50 oral rat	> 5000 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Skin, 14 day(s))
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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)
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.
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)
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Certain reactions were observed for sensitive people.
Expected Symptoms/Effects, Acute and Delayed Symptoms/effects	: Bonds skin and eyes in seconds.
Symptoms/effects after inhalation	: May cause respiratory irritation. Causes serious eye irritation.
Symptoms/effects after skin contact	: May cause respiratory irritation.
Symptoms/effects after eye contact	: Cyanoacrylates bond skin in seconds. skin irritation and erythema.
Symptoms/effects after ingestion	: Causes serious eye irritation. redness, itching, tears.
Most Important Symptoms/Effects	: 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.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Ecology - water	: Polymerizes on exposure to water (moisture)

Silicones and siloxanes, dimethyl-,reaction products with silica (67762-90-7)

LC50 - Fish [1]	> 10000 mg/l Brachydanio rerio, 96 h
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna, 24 h

12.2. Persistence and degradability

Chemence SI GEL Cyanoacrylate Gel Adhesive	
Persistence and degradability	Biodegradability in water: no data available.

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Polymethyl Methacrylate (9011-14-7)	
Persistence and degradability	Biodegradability in water: no data available.
Silicones and siloxanes, dimethyl-,reaction products with silica (67762-90-7)	
Persistence and degradability	Biodegradability in soil: no data available.
ethyl-2-cyanoacrylate (7085-85-0)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

Chemence SI GEL Cyanoacrylate Gel Adhesive	
Partition coefficient n-octanol/water (Log Pow)	0.776 @ 22 °C & pH 6.3
Bioaccumulative potential	No bioaccumulation potential.
Polymethyl Methacrylate (9011-14-7)	
Bioaccumulative potential	No bioaccumulation data available.
Silicones and siloxanes, dimethyl-,reaction products with silica (67762-90-7)	
Bioaccumulative potential	No bioaccumulation data available.
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).

12.4. Mobility in soil

Chemence SI GEL Cyanoacrylate Gel Adhesive	
Ecology - soil	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 legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: The product can be polymerized slowly with water (10:1, adhesive : water). Cured product can then be disposed of in land-fill sites by licensed contractors. Use suitable disposal containers.
Product/Packaging disposal recommendations	: Do not dispose of the packaging without first carrying out the necessary cleaning. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.
Ecology - waste materials	: Glue and adhesive waste, cured. Not considered hazardous.

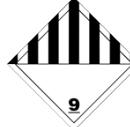
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SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

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

14.6. Special precautions for user

DOT

UN-No.(DOT)

DOT Special Provisions (49 CFR 172.102)

: UN3334

: 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

Emergency Response Guide (ERG) Number

: 171

IMDG

No data available

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IATA

Transport regulations (IATA)	: Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.
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

Chemence SI GEL Cyanoacrylate Gel Adhesive

SARA Section 311/312 Hazard Classes	Physical hazard - Hazard Not Otherwise Classified (HNOC) Health hazard - Skin corrosion or Irritation Fire hazard Reactive hazard Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Serious eye damage or eye irritation
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Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Polymethyl Methacrylate	9011-14-7	Present	Active	XU
Silicones and siloxanes, dimethyl-,reaction products with silica	67762-90-7			XU
ethyl-2-cyanoacrylate	7085-85-0	Present	Active	XU

15.2. International regulations

CANADA

Polymethyl Methacrylate (9011-14-7)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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15.3. US State regulations

Component	State or local regulations
ethyl-2-cyanoacrylate(7085-85-0)	U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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Revision date : 09/07/2021
Data sources : UNECE, <http://www.unece.org/>. Supplier's safety documents. ECHA (European Chemicals Agency).
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

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.
Personal protection : B - Safety glasses, Gloves

Indication of changes:

Section	Changed item	Change	Comments
	Hazard statements (GHS US)	Modified	
	Supersedes	Modified	
	Revision date	Modified	
	Reason for no classification	Added	
2.1	GHS-US classification	Modified	
3	Composition/Information on ingredients	Modified	

Safety Data Sheet (SDS), USA

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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