



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation STARBRITE LIQUID ELECTRICAL TAPE

Use of the substance/preparation Sealant.

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Product code 841-BLK

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**DOCTORS/FIRE BRIGADE/
POLICE only** 001-703-527-3887 CHEMTREC

2. HAZARDS IDENTIFICATION

This preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification F;R11, Xn;R20/21, Xi;R36/38, R43

Physical hazards Highly flammable.

Health hazards Harmful by inhalation and in contact with skin. Irritating to eyes and skin. May cause sensitization by skin contact. Occupational exposure to the substance or mixture may cause adverse health effects.

Environmental hazards Not classified as an environmental hazard.

Specific hazards Highly flammable. Harmful by inhalation and in contact with skin. Irritating to eyes and skin. Irritating to mouth, throat, and stomach. Vapors may cause drowsiness and dizziness. Prolonged exposure may cause chronic effects.

Main symptoms Irritation of nose and throat. Irritation of eyes and mucous membranes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	Classification	CAS-No.	%	EC-No. / REACH Registration No.	Notes
Methyl ethyl ketone	F;R11, Xi;R36, R66-67	78-93-3	15-40	201-159-0	#
Xylene	R10, Xn;R20/21, Xi;R38	1330-20-7	10-30	215-535-7	#
Acetone	F;R11, Xi;R36, R66-67	67-64-1	5-10	200-662-2	#
3,4-Epoxy-cyclohexanecarboxylic acid (3,4-epoxy-cyclohexylmethyl) ester		2386-87-0	3-7	219-207-4	

#: This substance has workplace exposure limit(s).

The full text for all R-phrases is displayed in Section 16 of the MSDS. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. FIRST AID MEASURES

Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention if symptoms persist.
Skin contact	Remove and isolate contaminated clothing and shoes. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation persists, call a physician.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Do not induce vomiting without advice from poison control center. Do not use mouth-to-mouth method if victim ingested the substance. Call a physician or poison control center immediately.
General advice	Get medical attention if symptoms occur. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Discard any shoes or clothing items that cannot be decontaminated.
Notes to physician	Treat symptomatically. Symptoms may be delayed.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water. Water spray. Foam. Dry powder. Carbon dioxide (CO ₂).
Extinguishing media which must not be used for safety reasons	Do not use a solid water stream as it may scatter and spread fire.
Unusual fire & explosion hazards	Heat may cause the containers to explode. Vapors may travel considerable distance to a source of ignition and flash back.
Specific hazards	Fire may produce irritating, corrosive and/or toxic gases.
Special protective equipment for fire-fighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Fire fighting equipment/instructions	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. In the event of fire, cool tanks with water spray. Move containers from fire area if you can do it without risk. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Use water spray to cool unopened containers. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Specific methods	In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire.

6. ACCIDENTAL RELEASE MEASURES

Containment procedures	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewers, basements or confined areas.
Personal precautions	Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. See Section 8 of the MSDS for Personal Protective Equipment.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Large Spills: Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Never return spills to original containers for re-use. This material and its container must be disposed of as hazardous waste. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

Handling

May be ignited by open flame. Keep away from sources of ignition - No smoking. Avoid inhalation and contact with skin and eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. See Section 8 of the MSDS for Personal Protective Equipment.

Storage

Flammable liquid storage. Follow rules for flammable liquids. Do not handle or store near an open flame, heat or other sources of ignition. Store in a cool and well-ventilated place. Keep out of the reach of children. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep away from food, drink and animal feedings.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
Acetone (67-64-1)	VLE	1000 ppm
		2420 mg/m ³
	VME	500 ppm
Carbon black (1333-86-4)	VME	1210 mg/m ³
		3.5 mg/m ³
	VLE	900 mg/m ³
Methyl ethyl ketone (78-93-3)		300 ppm
	VME	600 mg/m ³
		200 ppm
Xylene (1330-20-7)	VLE	100 ppm
		442 mg/m ³
	VME	221 mg/m ³
	50 ppm	

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value
Acetone (67-64-1)	AGW	1200 mg/m ³
		500 ppm
Methyl ethyl ketone (78-93-3)	AGW	200 ppm
		600 mg/m ³
Xylene (1330-20-7)	AGW	440 mg/m ³
		100 ppm

Italy. OELs

Components	Type	Value	Form
Acetone (67-64-1)	TWA	500 ppm	
		1210 mg/m ³	
Carbon black (1333-86-4)	TWA	3.5 mg/m ³	
		900 mg/m ³	
Methyl ethyl ketone (78-93-3)	STEL	300 ppm	
		600 mg/m ³	
		200 ppm	
Talc (14807-96-6)	TWA	2 mg/m ³	Respirable fraction.
		100 ppm	
Xylene (1330-20-7)	STEL	442 mg/m ³	
		221 mg/m ³	
		50 ppm	

Occupational exposure limits

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value	Form
Acetone (67-64-1)	STEL	750 ppm	
		500 ppm	
		1210 mg/m ³	
Carbon black (1333-86-4)	TWA	3.5 mg/m ³	
		900 mg/m ³	
		300 ppm	
Methyl ethyl ketone (78-93-3)	STEL	600 mg/m ³	
		200 ppm	
		300 ppm	
Talc (14807-96-6)	TWA	2 mg/m ³	Respirable fraction.
		100 ppm	

Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)

Components	Type	Value	Form
Xylene (1330-20-7)	STEL	100 ppm	
		442 mg/m3	
	TWA	221 mg/m3	
		50 ppm	

Exposure limit values

Spain. Occupational Exposure Limits

Components	Type	Value	Form
Acetone (67-64-1)	TWA	500 ppm	
		1210 mg/m3	
Carbon black (1333-86-4)	TWA	3.5 mg/m3	
		900 mg/m3	
Methyl ethyl ketone (78-93-3)	STEL	300 ppm	
		600 mg/m3	
Talc (14807-96-6)	TWA	200 ppm	Respirable fraction.
		2 mg/m3	
Xylene (1330-20-7)	STEL	100 ppm	
		442 mg/m3	
	TWA	221 mg/m3	
		50 ppm	

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Acetone (67-64-1)	STEL	3620 mg/m3	
		1500 ppm	
	TWA	500 ppm	
Carbon black (1333-86-4)	STEL	1210 mg/m3	
		7 mg/m3	
	TWA	3.5 mg/m3	
Methyl ethyl ketone (78-93-3)	STEL	899 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
Talc (14807-96-6)	TWA	200 ppm	Respirable dust.
		1 mg/m3	
	STEL	100 ppm	
Xylene (1330-20-7)	STEL	441 mg/m3	
		220 mg/m3	
	TWA	50 ppm	

Exposure controls

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Occupational exposure controls

Respiratory protection	Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hand protection	Protective gloves. Wear protective gloves.
Eye protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear protective gloves. Wear chemical protective equipment that is specifically recommended by the manufacturer.
General	Use personal protective equipment as required. Keep working clothes separately.
Hygiene measures	Avoid contact with eyes. Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practices. Always observe national occupational health and hygiene requirements including requirements for medical surveillance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Black liquid.

Physical state	Liquid.
Form	Liquid.
Color	Black.
Odor	Solvent -like.
Odor threshold	Not available.
pH	Not available.
Boiling point	Not available.
Flash point	60.8 °F (16 °C) Setaflash Closed Tester
Flammability limits in air, upper, % by volume	< 11.5
Flammability limits in air, lower, % by volume	> 0.3
Vapor pressure	Not available.
Relative density	Not available.
Solubility (water)	Not miscible.
Partition coefficient (n-octanol/water)	Not available.
Viscosity	1800 cP
Vapor density	Not available.
Evaporation rate	Not available.
Melting point	Not available.
Freezing point	Not available.
Auto-ignition temperature	Not available.

10. STABILITY AND REACTIVITY

Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Hazardous decomposition products	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Components	Test Results
Xylene (1330-20-7)	Acute Oral LD50 Mouse: 1590 mg/kg
Carbon black (1333-86-4)	Acute Oral LD50 Rat: 6670 mg/kg Acute Oral LD50 Rat: > 8000 mg/kg
Methyl ethyl ketone (78-93-3)	Acute Dermal LD50 Rabbit: > 8000 mg/kg Acute Inhalation LC50 Rat: 11700 mg/l 4 Hours Acute Oral LD50 Rat: 2300 - 3500 mg/kg
Acute effects	Irritating to eyes and skin. May be harmful if inhaled and swallowed. Vapors may cause drowsiness and dizziness.
Routes of exposure	Inhalation. Skin contact. Eye contact.
Chronic toxicity	Prolonged exposure may cause chronic effects. Repeated exposure may cause skin dryness or cracking.
Sensitization	May cause allergic skin reaction.
Carcinogenicity	Risk of cancer cannot be excluded with prolonged exposure.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Carbon black (CAS 1333-86-4)	2B Possibly carcinogenic to humans.
Talc (CAS 14807-96-6)	2B Possibly carcinogenic to humans.
Vinyl chloride - vinyl acetate copolymer (CAS 9003-22-9)	3 Not classifiable as to carcinogenicity to humans.
Xylene (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Teratogenicity	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.
Reproductivity	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.

Epidemiology No epidemiological data is available for this product.
Local effects Irritating to eyes and skin.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Components

	Test Results
Acetone (67-64-1)	LC50 Fathead minnow (<i>Pimephales promelas</i>): > 100 mg/l 96 hours
Methyl ethyl ketone (78-93-3)	LC50 Sheepshead minnow (<i>Cyprinodon variegatus</i>): > 400 mg/l 96 hours

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment.
Mobility The product is insoluble in water.
Persistence / degradability None known.
Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Disposal instructions This material and its container must be disposed of as hazardous waste.
Waste from residues / unused products Dispose in accordance with applicable federal, state, and local regulations.
Contaminated packaging Offer rinsed packaging material to local recycling facilities.
EU wastecodes Waste codes should be assigned by the user based on the application for which the product was used. The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

14. TRANSPORT INFORMATION

ADR

Basic shipping requirements:

UN number 1993
Proper shipping name FLAMMABLE LIQUID, N.O.S. (Acetone, Methyl ethyl ketone)
Hazard class 3
Packing group II
Labels required 3
Additional information:
Hazard ID 33
Item F1
Transport Category 2 (D/E)

IATA

Basic shipping requirements:

UN number 1993
Proper shipping name Flammable liquid, n.o.s. (Acetone, Methyl ethyl ketone)
Hazard class 3
Packing group II
Additional information:
ERG code 3L

IMDG

Basic shipping requirements:

UN number 1993
Proper shipping name FLAMMABLE LIQUID, N.O.S. (Acetone, Methyl ethyl ketone)
Hazard class 3
Packing group II
EmS No. F-E, S-E*



ADR



IATA



IMDG

Further information

For IMDG: Limited quantity up to 1liter.

15. REGULATORY INFORMATION

Labeling

Contains 3,4-Epoxy cyclohexanecarboxylic acid (3,4-epoxycyclohexylmethyl) ester, Xylene

Symbol(s)



Harmful



Highly flammable

R-phrases(s)

R11 Highly flammable.
R20/21 Harmful by inhalation and in contact with skin.
R36/38 Irritating to eyes and skin.
R43 May cause sensitization by skin contact.

S-phrases(s)

S2 Keep out of the reach of children.
S24/25 Avoid contact with skin and eyes.
S36/37 Wear suitable protective clothing and gloves.
S46 If swallowed, seek medical advice immediately and show this container or label.

Supplemental information on the label

According to Directive 99/45/EC, the packaging of this product shall carry a tactile warning of danger. The packaging shall carry the text: Contains: 3,4-Epoxy cyclohexanecarboxylic acid (3,4-epoxycyclohexylmethyl) ester.

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

Water hazard class

VwVws

WGK2

16. OTHER INFORMATION

Wording of the R-phrases in sections 2 and 3

R10 Flammable.
R11 Highly flammable.
R20/21 Harmful by inhalation and in contact with skin.
R36 Irritating to eyes.
R36/38 Irritating to eyes and skin.
R38 Irritating to skin.
R43 May cause sensitization by skin contact.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapors may cause drowsiness and dizziness.

Inventory status

Country(s) or region

Europe

Inventory name

European Inventory of Existing Commercial Chemical Substances (EINECS)

On inventory (yes/no)*

Yes

Europe

European List of Notified Chemical Substances (ELINCS)

No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Disclaimer

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Star brite assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Star brite assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Issue date

10-11-2010