

SAFETY DATA SHEET

Issuing Date: 22-Dec-2011 Revision Date: 15-Jan-2013 Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Code: 16062CEH-LVOC

Product Name: CLEAR EPOXY HARDENER, MIL-PRF-22750G(I), PART B, TY II, CL H, GR A

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

Recommended Use Coating

Uses advised against No information available

1.3 Details of the supplier of the safety data sheet

Manufacturer

Hentzen Coatings Incorporated 6937 West Mill Road Milwaukee, Wisconsin, USA

53218-1225

For further information, please contact:

Contact Point 001 414 353 4200 E-mail Address coatings@hentzen.com

1.4 Emergency telephone number

Emergency telephone - §45 - (EC)1272/2008

Europe CHEMTREC (USA) 001 800 424 9300

2. HAZARDS IDENTIFICATION

2.3. Other hazards

2.1 Classification of the substance or mixture

The preparation is classified as dangerous in accordance with Directive 1999/45/EC

Classification

For the full text of the R-phrases mentioned in this Section, see Section 16

R10 - Xi;R36

Most Important Hazards

Flammable
Irritating to eyes
2.2 Label Elements





Classification

Xi - Irritant

R-phrase(s)

R10 - Flammable

R36 - Irritating to eyes

S-phrase(s)

S 7 - Keep container tightly closed

S 9 - Keep container in a well-ventilated place

S16 - Keep away from sources of ignition - No smoking

MILE-1 NT -227300(1),1 ART B,1 T 11,500 A

S33 - Take precautionary measures against static discharges

Contains TETRAETHYENEPENTAMINE(TEPA). May produce an allergic reaction

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name	EC-No	CAS No	Weight-%	Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration Number
BUTYL ALCOHOL	Present	71-36-3	5%-10%	R10 Xn; R22 Xi; R37/38-41 R67	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) STOT SE 3 (H336) Flam. Liq. 3 (H226)	no data available
BENZYL ALCOHOL	Present	100-51-6	5%-10%	Xn; R20/22	Acute Tox. 4 (H302) Acute Tox. 4 (H332)	no data available
TETRAETHYENEPENTAM INE(TEPA)	Present	112-57-2	0%-5%	Xn; R21/22 C; R34 R43 N; R51-53	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	no data available

For the full text of the R-phrases mentioned in this Section, see Section 16

3.2 Mixtures

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance If symptoms persist, call a physician

Eye Contact If symptoms persist, call a physician Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes Immediately flush eyes with water for at least 15 minutes. Get medical attention. If easy to do, remove contact lenses Keep eye wide open while

rinsing

Skin Contact Immediate medical attention is not required Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes If skin irritation persists, call a

physician

Ingestion Do NOT induce vomiting Drink plenty of water Immediate medical attention is not required

Rinse mouth Clean mouth with water and afterwards drink plenty of water Never give

anything by mouth to an unconscious person Consult a physician if necessary

Inhalation Remove to fresh air If symptoms persist, call a physician Immediate medical attention is not

required Move to fresh air in case of accidental inhalation of vapors

Self-protection of the first aider Remove all sources of ignition Use personal protective equipment as required

4.2 Most important symptoms and effects, both acute and delayed

Most Important Symptoms and No information available

Effects

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Extinguishing media which shall not be used for safety reasons

No information available

5.2 Special hazards arising from the substance or mixture

Special Hazard

None in particular

5.3 Advice for fire-fighters

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition Evacuate personnel to safe areas Ensure adequate ventilation Use personal protective equipment as required Keep people away from and upwind of spill/leak Avoid breathing vapors or mists Ventilate the area

See Section 12 for additional information

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so Prevent product from entering drains Do not flush into surface water or sanitary sewer system Vapors are heavier than air, spread along floors and form explosive mixtures with air

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation Keep away from open flames, hot surfaces and sources of ignition Take precautionary measures against static discharges Use explosion-proof electrical (ventilation and lighting) equipment Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors) Use with local exhaust ventilation Wear protective gloves/protective clothing/eye protection/face protection Do not breathe vapor or mist To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap Use only non-sparking tools

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place Keep in properly labeled containers Keep containers tightly closed in a cool, well-ventilated place Keep away from heat, sparks and flame

7.3 Specific end uses

Specific use(s) Coating

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure limits

	Chemical Name	European Union	The United Kingdom	France	Spain	Germany
I	BUTYL ALCOHOL		STEL: 50 ppm	STEL: 50 ppm	S*	TWA: 100 ppm

16062CEH-LVOC CLEAR EPOXY HARDENER, MIL-PRF-22750G(I), PART B, TY II, CL H, GR A

71-36-3		STEL: 154 mg/m³ Skin	STEL: 150 mg/m ³	STEL: 50 ppm STEL: 154 mg/m³	TWA: 310 mg/m ³ Ceiling / Peak: 100
				TWA: 20 ppm TWA: 61 mg/m ³	ppm Coiling / Book: 210
				TWA. 61 mg/m²	Ceiling / Peak: 310 mg/m ³
Component	Italy	Portugal	The Netherlands	Finland	Denmark
BUTYL ALCOHOL		TWA: 20 ppm		TWA: 50 ppm	Ceiling: 50 ppm
71-36-3 (6.383)				TWA: 150 mg/m ³	Ceiling: 150 mg/m ³
				STEL: 75 ppm	Skin
				STEL: 230 mg/m ³	
				Skin	
BENZYL ALCOHOL				TWA: 10 ppm	
100-51-6 (5.10638)				TWA: 45 mg/m ³	
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
BUTYL ALCOHOL	STEL 200 ppm	STEL: 50 ppm	STEL: 150 mg/m ³	Skin	TWA: 20 ppm
71-36-3	STEL 600 mg/m ³	STEL: 150 mg/m ³	TWA: 50 mg/m ³	Ceiling: 25 ppm	STEL: 60 ppm
	TWA: 50 ppm	TWA: 50 ppm	_	Ceiling: 75 mg/m ³	Skin
	TWA: 150 mg/m ³	TWA: 150 mg/m ³			
BENZYL ALCOHOL			TWA: 240 mg/m ³		
100-51-6					

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration

(PNEC)

No information available

8.2 Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Eve Protection Use personal protective equipment as required

Hand Protection Protective gloves

Skin and Body Protection Antistatic boots Wear fire/flame resistant/retardant clothing Impervious gloves Long sleeved

clothing Apron

Respiratory Protection No special protective equipment required

Hygiene Measures Do not eat, drink or smoke when using this product Regular cleaning of equipment, work

area and clothing is recommended

Do not allow material to contaminate ground water system **Environmental Exposure Controls**

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Liquid **Appearance** Clear

Odor Solvent

Note This temperature may be significantly Property Values

lower under particular conditions (slow oxidation on finely divided materials...).

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pH VALUE no data available Melting/freezing point

No data available

Boiling Point 117 °C / 242 °F

Flash Point 35 °C / 95 °F (based on components) **Evaporation rate** No data available

No data available Flammability (solid, gas) Flammability Limits in Air

upper flammability limit 5.18 lower flammability limit 0.48

Vapor pressure no data available

16062CEH-LVOC CLEAR EPOXY HARDENER, MIL-PRF-22750G(I), PART B, TY II, CL H, GR A

Vapor density no data available

Relative density 1.13

Water solubilityno data availableSolubility in other solventsno data availablePartition coefficient: n-octanol/waterno data availableAutoignition temperatureNo data availableDecomposition temperatureno data availableViscosityno data available

9.2 Other information

VOC Content 54.04 %

10. STABILITY AND REACTIVITY

10.1 Reactivity

Not applicable

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous

reactions

None under normal use conditions

10.4 Conditions to avoid

Heat, flames and sparks

10.5 Incompatible materials

None in particular

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

Acute Toxicity

Product does not present an acute toxicity hazard based on known or supplied information

Inhalation There is no data for this product

Eye Contact There is no data for this product

Skin Contact There is no data for this product

Ingestion There is no data for this product

Oral LD50 18846 mg/kg (rat) Estimated Dermal LD50 4912 mg/kg (rat) Estimated

Inhalation LC50 32540 mg/l (mist) (dust) mg/m³ Estimated

Inhalation LC50

Component Information

Component information			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
BUTYL ALCOHOL	700 mg/kg (Rat)	3402 mg/kg (Rabbit)	8000 ppm (Rat) 4 h
BENZYL ALCOHOL	1230 mg/kg (Rat)	2 g/kg (Rabbit)	8.8 mg/L (Rat)4 h
TETRAETHYENEPENTAMINE(TE PA)	2100 mg/kg (Rat)	660 μL/kg (Rabbit)	

16062CEH-LVOC CLEAR EPOXY HARDENER, MIL-PRF-22750G(I),PART B,TY II,CL H,GR A

Chronic Toxicity

Sensitization No information available

Target Organ Effects Central nervous system (CNS) Eyes Respiratory system Skin

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
BUTYL ALCOHOL	500: 72 h Desmodesmus subspicatus mg/L EC50 500: 96 h Desmodesmus subspicatus mg/L EC50	1730 - 1910: 96 h Pimephales promelas mg/L LC50 static 1740: 96 h Pimephales promelas mg/L LC50 flow-through 100000 - 500000: 96 h Lepomis macrochirus μg/L LC50 static 1910000: 96 h Pimephales promelas μg/L LC50 static	-	1897 - 2072: 48 h Daphnia magna mg/L EC50 Static 1983: 48 h Daphnia magna mg/L EC50
BENZYL ALCOHOL	-	460: 96 h Pimephales promelas mg/L LC50 static 10: 96 h Lepomis macrochirus mg/L LC50 static	-	23: 48 h water flea mg/L EC50
TETRAETHYENEPENTAMI NE(TEPA)	2.1: 72 h Pseudokirchneriella subcapitata mg/L EC50	420: 96 h Poecilia reticulata mg/L LC50 static	-	24.1: 48 h Daphnia magna mg/L EC50

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB

assessment

No information available

12.6 Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from Residues / Unused

Products

Dispose of in accordance with local regulations

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal

Other information According to the European Waste Catalogue, Waste Codes are not product specific, but

application specific Waste codes should be assigned by the user based on the application

for which the product was used

14. TRANSPORT INFORMATION

IMDG/IMO

14.1 UN-Number UN1263

14.2 Proper Shipping Name PAINT RELATED MATERIAL

14.3 <u>Hazard Class</u> 3 14.4 <u>Packing group</u> III

Description UN1263, Paint related material, 3, III

14.5 Environmental Hazards None

14.6 Special Provisions

EmS-No F-E, S-E

14.7 Transport in bulk according to No information available

Annex II of MARPOL 73/78 and the

IBC Code

<u>RID</u>

14.1 UN-Number UN1263

14.2 Proper Shipping Name PAINT RELATED MATERIAL

 14.3 Hazard Class
 3

 14.4 Packing group
 II

Description UN1263, Paint related material, 3, III

14.5 Environmental Hazards None

14.6 **Special Provisions**

Classification Code F1

ADR/RID

14.1 UN-Number UN1263

14.2 Proper Shipping Name PAINT RELATED MATERIAL

14.3 Hazard Class 3
14.4 Packing group

Description UN1263, Paint related material, 3, III, (D/E)

14.5 Environmental Hazards None

14.6 Special Provisions

Classification Code F1
ADR/RID-Labels 3
Tunnel restriction code (D/E)

ICAO

14.1 UN-Number UN1263

14.2 Proper Shipping Name PAINT RELATED MATERIAL

14.3 <u>Hazard Class</u> 3 14.4 <u>Packing group</u> III

Description UN1263, Paint related material, 3, III

14.5 Environmental Hazards None

14.6 Special Provisions

Special Provisions None

<u>ICAO</u>

14.1 UN-Number UN1263

14.2 Proper Shipping Name PAINT RELATED MATERIAL

 14.3 Hazard Class
 3

 14.4 Packing group
 III

Description UN1263, Paint related material, 3, III

14.5 Environmental Hazards None

14.6 Special Provisions

ERG Code 3L

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

All of the components in the product are on the following Inventory lists: Canada (DSL/NDSL).

TSCA Complies **EINECS/ELINCS** Complies DSL/NDSL Complies **PICCS** Complies **ENCS** Complies Complies **IECSC** AICS Complies Complies **KECL**

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2 Chemical Safety Assessment

No information available

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R10 - Flammable

R67 - Vapors may cause drowsiness and dizziness

R22 - Harmful if swallowed

R34 - Causes burns

R43 - May cause sensitization by skin contact

R36 - Irritating to eyes

R37/38 - Irritating to respiratory system and skin R20/22 - Harmful by inhalation and if swallowed

R21/22 - Harmful in contact with skin and if swallowed

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Revision Note Revision Note not applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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