



SAFETY DATA SHEET

Issuing Date: 22-Dec-2011

Revision Date: 25-Oct-2013

Version: 1

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Code: 17036CEH
Product Name: CURING SOLUTION , EPOXY PRIMER PART B

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

2.1 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

F;R11 - Xi;R36 - R43 - R66 - R67

Most Important Hazards

Highly flammable
Irritating to eyes
May cause sensitization by skin contact
Repeated exposure may cause skin dryness or cracking
Vapors may cause drowsiness and dizziness

2.2 Label Elements

**Classification**

Xi - Irritant

F - Highly flammable

R-phrases(s)

R11 - Highly flammable

R36 - Irritating to eyes

R43 - May cause sensitization by skin contact

R66 - Repeated exposure may cause skin dryness or cracking

R67 - Vapors may cause drowsiness and dizziness

S-phrases(s)

S 9 - Keep container in a well-ventilated place

S16 - Keep away from sources of ignition - No smoking

S24 - Avoid contact with skin

S33 - Take precautionary measures against static discharges

S37 - Wear suitable gloves

Contains TRIETHYLENETETRAMINE(TETA)

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
METHYL ACETATE	201-185-2	79-20-9	33.3123	F;R11 Xi;R36 R66 R67	Flam. Liq. 2 H225 STOT SE 3 H336 Eye Irrit. 2 H319	no data available
ISOPROPYL ALCOHOL	200-661-7	67-63-0	27.2727	F;R11 Xi;R36 R67	Flam. Liq. 2 H225 STOT SE 3 H336 Eye Irrit. 2 H319	no data available
BENZYL ALCOHOL	202-859-9	100-51-6	4.41914	Xn;R20/22	Acute Tox. 4 H302 Acute Tox. 4 H332	no data available
TRIETHYLENETETRAMIN E(TETA)	203-950-6	112-24-3	1.10478	Xn;R21 C;R34 R43 R52 R53	Acute Tox. 4 H312 Skin Corr. 1B H314 Skin Sens. 1 H317 Aquatic Chronic 3 H412	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 material safety data sheet to the doctor in attendance. If symptoms persist, call a physician
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes If symptoms persist, call a physician Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes 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 Immediate medical attention is not required Drink plenty of water Rinse mouth Clean mouth with water and afterwards drink plenty of water Never give anything by mouth to an unconscious person Consult a physician
Inhalation	If symptoms persist, call a physician Move to fresh air Immediate medical attention is not required Move to fresh air in case of accidental inhalation of vapors
Protection of First-aiders	Remove all sources of ignition Use personal protective equipment

4.2 Most important symptoms and effects, both acute and delayed

Main Symptoms No information available

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician May cause sensitization of susceptible persons 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

As in any fire, wear self-contained breathing apparatus and full protective gear

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 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

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 only in an area containing flame proof equipment To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded Use only in area provided with appropriate exhaust ventilation Wear personal protective equipment Do not breathe vapors or spray mist Use bonding and grounding when transferring materials Use non-sparking tools and equipment

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 and sources of ignition

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
METHYL ACETATE 79-20-9		STEL: 250 ppm STEL: 770 mg/m ³ TWA: 200 ppm TWA: 616 mg/m ³	VME: 200 ppm VME: 610 mg/m ³ VLCT: 250 ppm VLCT: 760 mg/m ³	VLA-EC: 250 ppm VLA-EC: 770 mg/m ³ VLA-ED: 200 ppm VLA-ED: 616 mg/m ³	MAK: 100 ppm MAK: 310 mg/m ³ Ceiling / Peak: 400 ppm Ceiling / Peak: 1240 mg/m ³ TWA: 200 ppm TWA: 610 mg/m ³
ISOPROPYL ALCOHOL 67-63-0		STEL: 500 ppm STEL: 1250 mg/m ³ TWA: 400 ppm TWA: 999 mg/m ³	VLCT: 400 ppm VLCT: 980 mg/m ³	VLA-EC: 500 ppm VLA-EC: 1250 mg/m ³ VLA-ED: 400 ppm VLA-ED: 998 mg/m ³	MAK: 200 ppm MAK: 500 mg/m ³ Ceiling / Peak: 400 ppm Ceiling / Peak: 1000 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
METHYL ACETATE 79-20-9		STEL: 250 ppm TWA: 200 ppm		TWA: 200 ppm TWA: 610 mg/m ³ STEL: 250 ppm STEL: 770 mg/m ³	TWA: 150 ppm TWA: 455 mg/m ³
ISOPROPYL ALCOHOL 67-63-0		STEL: 400 ppm TWA: 200 ppm		TWA: 200 ppm TWA: 500 mg/m ³ STEL: 250 ppm STEL: 620 mg/m ³	TWA: 200 ppm TWA: 490 mg/m ³
BENZYL ALCOHOL 100-51-6				TWA: 10 ppm TWA: 45 mg/m ³	
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland

METHYL ACETATE 79-20-9	STEL 400 ppm STEL 1220 mg/m ³ MAK: 200 ppm MAK: 610 mg/m ³	STEL: 400 ppm STEL: 1240 mg/m ³ MAK: 100 ppm MAK: 310 mg/m ³	NDSch: 600 mg/m ³ NDS: 250 mg/m ³	TWA: 100 ppm TWA: 305 mg/m ³ STEL: 150 ppm STEL: 381.25 mg/m ³	TWA: 200 ppm TWA: 610 mg/m ³ STEL: 250 ppm STEL: 760 mg/m ³
ISOPROPYL ALCOHOL 67-63-0	STEL 800 ppm STEL 2000 mg/m ³ MAK: 200 ppm MAK: 500 mg/m ³	STEL: 400 ppm STEL: 1000 mg/m ³ MAK: 200 ppm MAK: 500 mg/m ³	NDSch: 1200 mg/m ³ NDS: 900 mg/m ³ Skin	TWA: 100 ppm TWA: 245 mg/m ³ STEL: 150 ppm STEL: 306.25 mg/m ³	TWA: 200 ppm STEL: 400 ppm Skin
BENZYL ALCOHOL 100-51-6			NDS: 240 mg/m ³		
TRIETHYLENETETRAMINE (TETA) 112-24-3			NDSch: 3 mg/m ³ NDS: 1 mg/m ³ Skin	TWA: 1 ppm TWA: 6 mg/m ³ STEL: 3 ppm STEL: 12 mg/m ³	

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

Eye Protection Tightly fitting safety goggles

Hand Protection Protective gloves

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

Respiratory Protection No special protective equipment required

Hygiene Measures When using, do not eat, drink or smoke Provide regular cleaning of equipment, work area and clothing

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State @20°C	Liquid	Appearance	Clear
Odor	Solvent		
Property	Values	Note	
pH VALUE		no data available	
Melting/freezing point		No data available	
Boiling Point	56 °C / 133 °F		
Flash Point	-10 °C / 14 °F	(based on components)	
Evaporation rate		no data available	
Flammability (solid, gas)		No data available	
Flammability Limits in Air			
upper flammability limit	8.67		
lower flammability limit	1.59		
Vapor pressure		no data available	
Vapor density		no data available	
Relative density	0.91		
Water solubility		no data available	

Solubility in other solvents	no data available
Partition coefficient: n-octanol/water	no data available
Autoignition temperature	No data available
Decomposition temperature	no data available
Viscosity	no data available

9.2 Other information

VOC Content 65 %

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

None under normal use

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 available for this product
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Eye Contact	There is no data available for this product
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Skin Contact	There is no data available for this product
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Ingestion	There is no data available for this product
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LD50 Oral:	6742 mg/kg (rat) Estimated
LD50 Dermal:	9728 mg/kg (rat) Estimated
LC50 Inhalation:	135116 mg/l (mist) (dust) mg/m ³ Estimated
LC50 Inhalation:	

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
METHYL ACETATE	5000 mg/kg (Rat)	2000 mg/kg (Rat) 5000 mg/kg (Rabbit)	16000 ppm (Rat) 4 h
ISOPROPYL ALCOHOL	4396 mg/kg (Rat)	12800 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat) 4 h
BENZYL ALCOHOL	1230 mg/kg (Rat)	2000 mg/kg (Rabbit)	8.8 mg/L (Rat) 4 h
TRIETHYLENETETRAMINE(TETA)	2500 mg/kg (Rat)	550 mg/kg (Rabbit)	

Chronic Toxicity
Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

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
METHYL ACETATE	120: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	295-348: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 250-350: 96 h <i>Brachydanio rerio</i> mg/L LC50 static	-	1026.7: 48 h <i>Daphnia magna</i> mg/L EC50
ISOPROPYL ALCOHOL	1000: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50 1000: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	9640: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 11130: 96 h <i>Pimephales promelas</i> mg/L LC50 static 1400000: 96 h <i>Lepomis macrochirus</i> µg/L LC50	-	13299: 48 h <i>Daphnia magna</i> mg/L EC50
BENZYL ALCOHOL	35: 3 h <i>Anabaena variabilis</i> mg/L EC50	460: 96 h <i>Pimephales promelas</i> mg/L LC50 static 10: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	-	23: 48 h water flea mg/L EC50
TRIETHYLENETETRAMINE (TETA)	2.5: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 20: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 3.7: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50	570: 96 h <i>Poecilia reticulata</i> mg/L LC50 semi-static 495: 96 h <i>Pimephales promelas</i> mg/L LC50	-	31.1: 48 h <i>Daphnia magna</i> 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
14.3 Hazard Class	3
14.4 Packing group	II
Description	UN1263, Paint, 3, II
14.5 Environmental Hazards	None
14.6 Special Provisions	
EmS No.	F-E, S-E
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

RID

14.1 UN-Number	UN1263
14.2 Proper Shipping Name	Paint
14.3 Hazard Class	3
14.4 Packing group	II
Description	UN1263, Paint, 3, II
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
14.3 Hazard Class	3
14.4 Packing group	II

Description	UN1263, Paint, 3, II, (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
14.3 Hazard Class	3
14.4 Packing group	II
Description	UN1263, Paint, 3, II
14.5 Environmental Hazards	None
14.6 Special Provisions	
Special Provisions	None

ICAO/IATA

14.1 UN-Number	UN1263
14.2 Proper Shipping Name	Paint
14.3 Hazard Class	3
14.4 Packing group	II
Description	UN1263, Paint, 3, II
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/NDL).

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDL	Complies
PICCS	Complies
ENCS	Complies
IECSC	Complies
AICS	Complies
KECL	Complies

Legend

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

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

DSL/NDL - 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

R11 - Highly flammable

R66 - Repeated exposure may cause skin dryness or cracking

R67 - Vapors may cause drowsiness and dizziness

R36 - Irritating to eyes

R34 - Causes burns

R43 - May cause sensitization by skin contact

R21 - Harmful in contact with skin

R20/22 - Harmful by inhalation and if swallowed

Issuing Date: 22-Dec-2011

Revision Date: 25-Oct-2013

Revision Note Not applicable.

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

DISCLAIMER

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.