Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)

2015/830 - Europe

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# SAFETY DATA SHEET

SOLID EPOXY THINNER EP-H

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name : SOLID EPOXY THINNER EP-H

Product description : Thinner.

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

Recommended use: Painting work

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer or Distributor** 

Tikkurila Oyj P.O. Box 53 FI-01301 VANTAA

**FINLAND** 

Telephone +358 20 191 2000

e-mail address of person : Tikkurila Oyj, responsible for this SDS : Product Safety,

e-mail: productsafety@tikkurila.com

#### 1.4 Emergency telephone number

Telephone number : 112

(24h)

Supplier or Manufacturer

Telephone number : Tikkurila Oyj

+358 20 191 2000 (GMT +2) Mon-Fri 8-16

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 2, H225

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

#### 2.2 Label elements

Hazard pictograms :



Signal word : Danger

**Hazard statements** : H225 - Highly flammable liquid and vapor.

**Precautionary statements** 

General : Not applicable.

Prevention : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P261 - Avoid breathing mist/vapors/spray.

P284 - In case of inadequate ventilation wear respiratory protection.

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Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Supplemental label : Not applicable.

elements

#### 2.3 Other hazards

Other hazards which do not result in classification

: None known.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures : Mixture

			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Notes
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥75 - ≤90	Flam. Liq. 2, H225	-
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≤4.9	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-
ethyl methyl ketone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≤2.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-
isopropanol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0	≤2.4	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 See Section 16 for the full text of the H statements declared above.	-

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Notes, if applicable, refer to Notes given in Annex VI of 1272/2008/EC.

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Inhalation

Skin contact

Ingestion

General : In all cases of doubt, or when symptoms persist, seek medical attention. Show this safety data sheet or label to the doctor if possible.
 Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of lukewarm water, keeping eyelids open. Continue to rinse for at least 15 minutes. Get medical attention if symptoms occur.

: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.

: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

: If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Remove to fresh air and keep at rest in a position comfortable for breathing. Do NOT induce vomiting.

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#### 4.2 Most important symptoms and effects, both acute and delayed

Inhalation of vapours may cause dizziness, headache and nausea. See Section 11 for more detailed information on health effects and symptoms.

#### 4.3 Indication of any immediate medical attention and special treatment needed

None.

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO<sub>2</sub>, powders or water spray/mist.

Unsuitable extinguishing media

: Do not use a direct water jet that could spread the fire.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Highly flammable liquid and vapor. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous combustion products

When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Avoid breathing vapor or mist. Avoid direct skin contact with product. See Section 8 for information on appropriate personal protective equipment.

6.2 Environmental precautions

: Do not allow to enter drains, water courses or soil.

6.3 Methods and materials for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 13 for additional waste treatment information.

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# SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

: Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. Isolate from sources of heat, sparks and open flame. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. No sparking tools should be used. Skin contact with the product and exposure to spray mist and vapor should be avoided. Avoid inhalation of dust from sanding. Wear appropriate respirator when ventilation is inadequate. See Section 8 for information on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Wash hands before breaks and immediately after handling the product.

#### 7.2 Conditions for safe storage, including any incompatibilities

: Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store and use away from heat, sparks, open flame or any other ignition source. No smoking. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Recommended storage temperature is +5°C ...+25°C. Store in accordance with local regulations.

7.3 Specific end use(s) : None.

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values	
acetone	EU OEL (Europe, 12/2017). Notes: list of indicative occupational exposure limit values	
	TWA: 500 ppm 8 hours. TWA: 1210 mg/m³ 8 hours.	
ethyl methyl ketone	EU OEL (Europe, 12/2017). Notes: list of indicative occupational exposure limit values  TWA: 200 ppm 8 hours.  TWA: 600 mg/m³ 8 hours.  STEL: 300 ppm 15 minutes.  STEL: 900 mg/m³ 15 minutes.	

procedures

Recommended monitoring: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**DNELs/DMELs** 

No DNELs/DMELs available.

**PNECs** 

No PNECs available.

#### 8.2 Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof ventilation equipment. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn (see Personal protection). Comply with the health and safety at work laws.

Individual protection measures

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Eye/face protection

: Use safety eyewear designed to protect against splash of liquids (EN166).

**Hand protection**: Wear protective gloves. Gloves should be replaced regularly and if there is any

sign of damage to the glove material. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be

followed.

Recommended glove material (EN374): < 1 hour (breakthrough time): nitrile rubber 4 - 8 hours (breakthrough time): butyl rubber > 8 hours (breakthrough time): laminated foil

Not recommended: PVA gloves

**Skin protection**: Wear suitable protective clothing. This product is classified as flammable. If

necessary, personnel should wear antistatic clothing made of natural fibers or of

high-temperature-resistant synthetic fibers.

Respiratory protection : If ventilation is inadequate, use respirator that will protect against organic vapor and

dust/mist. During spray-application use respirators with combination filter A/P3 (EN405:2001). Wear a half mask or full face respirator with gas and vapor filter A and dust filter P2 during sanding (EN140:1998, EN405:2001). During continuous and long-term work the use of motor-driven or air-fed respirators is recommended (EN12941:1998). Be sure to use an approved/certified respirator or equivalent.

Check that mask fits tightly and change filter regularly.

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid.
Color : Clear.
Odor : Strong.

Odor threshold : Not relevant for the hazard assessment of the product.

pH : Not relevant for the hazard assessment of the product.

Melting point/freezing point : -114°C (ethanol)
Initial boiling point and : 78.29°C (ethanol)

boiling range

Flash point : 13 °C (ethanol)

**Evaporation rate** : 1.7 (butyl acetate = 1) (ethanol) **Flammability (solid, gas)** : Not applicable. Product is a liquid.

Upper/lower flammability or

explosive limits

: Lower: 3.3% (ethanol) Upper: 19% (ethanol)

**Vapor pressure** : 5.7 kPa [room temperature] (ethanol)

Vapor density : 1.6 (ethanol)

Density : 0.8 g/cm³

Solubility(ies) : insoluble in water.

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature : 455°C (ethanol)

Decomposition temperature : Not relevant for the hazard assessment of the product.

Viscosity : Not relevant for the hazard assessment of the product.

Explosive properties : No explosive ingredients present.

Oxidizing properties : No oxidizing ingredients present.

#### 9.2 Other information

No additional information.

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# **SECTION 10: Stability and reactivity**

**10.1 Reactivity** : See Section 10.5.

**10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: May present an explosion hazard when material is suspended in air in confined areas or equipment and subjected to spark, heat or flame.

10.4 Conditions to avoid

: Avoid extreme heat and freezing. Avoid all possible sources of ignition (spark or

flame).

10.5 Incompatible materials

: Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents strong acids strong alkalis

10.6 Hazardous decomposition products

: When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

There is no testdata available on the product itself.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting.

**Acute toxicity** 

Not classified.

Irritation/Corrosion

Not classified.

Sensitization

Not classified.

Mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

**Teratogenicity** 

Not classified.

Specific target organ toxicity (single exposure)

Not classified.

Specific target organ toxicity (repeated exposure)

Not classified.

**Aspiration hazard** 

Not classified.

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# **SECTION 12: Ecological information**

Ecological testing has not been conducted on this product.

Do not allow to enter drains, water courses or soil.

The product is not classified as environmentally hazardous according to Regulation (EC) 1272/2008.

12.1 Toxicity

: No specific data.

Not available.

# 12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethyl methyl ketone	-	-	Readily
acetone	-	-	Readily

# 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	Bioconcentration factor [BCF]	Potential
isopropanol	0.05	-	low
ethyl methyl ketone	0.3	-	low
acetone	-0.23	-	low
ethanol	-0.35	-	low

#### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.
vPvB : Not applicable.

**12.6 Other adverse effects** : Not available.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**Product** 

Methods of disposal

: Gather residues into waste containers. Liquid residue and cleaning liquids are hazardous waste and must not be emptied into drains or sewage system, but handled in accordance with national regulations. Product residues should be left at special companies which have permission for gathering this kind of wastes.

#### European waste catalogue (EWC)

Waste code	Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

#### **Packaging**

Methods of disposal

: Empty packaging should be recycled or disposed of in accordance with national regulations.

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Special precautions : None.

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	П	II	II
14.5 Environmental hazards	No.	No.	No.

#### **Additional information**

ADR/RID : Special provisions 640 (C)

Tunnel code (D/E)

**IMDG** : Emergency schedules F-E,S-E

14.6 Special precautions for

user

: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

# SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Other EU regulations

**Europe inventory** : All components are listed or exempted.

: Listed

**Industrial emissions** (integrated pollution

prevention and control) -

Air

**Drug precursors** : This product contains following subtance(s) that are listed in Annex I / Category 3 of

the EU Regulation (EC) No 273/2004 on drug precursors:

acetone

ethyl methyl ketone

**Explosives precursors** : This product contains following subtance(s) that are listed in Annex II of the EU

Regulation (EC) No 98/2013 on explosives precursors:

acetone

15.2 Chemical Safety

**Assessment** 

: This product contains substances for which Chemical Safety Assessments are still

required.

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#### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/20081

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification Justification

Flam. Liq. 2, H225 On basis of test data

Full text of abbreviated H

statements

H225 Highly flammable liquid and vapor.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Full text of classifications

[CLP/GHS]

: EUH066

Eye Irrit. 2, H319

Repeated exposure may cause skin dryness or cracking. SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2

STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE

EXPOSURE) (Narcotic effects) - Category 3

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#### Notice to reader

This Safety Data Sheet is prepared in accordance with Annex II (EU) No 830/2015 to Regulation (EC) No 1907/2006 (REACH). The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

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