2015/830 - Europe

Date of issue/ Date of : 7/17/2020 Date of previous issue : 3/4/2020



## SAFETY DATA SHEET

**HARDENER 008 7067** 

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

#### 1.1 Product identifier

Product name : HARDENER 008 7067

Product description : Hardener.

### 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 FINI AND

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]

Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 3, H412

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

### 2.2 Label elements

Hazard pictograms







Signal word : Danger

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Hazard statements : H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H373 - May cause damage to organs through prolonged or repeated exposure.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

General : Not applicable.

**Prevention**: P261 - Avoid breathing mist/spray.

P261 - Avoid breathing vapor.

P280 - Wear protective gloves/clothing and eye/face protection. P284 - In case of inadequate ventilation wear respiratory protection.

P273 - Avoid release to the environment.

Response : P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or shower.

P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or physician.

Storage : Not applicable.

Disposal : Not applicable.

Hazardous ingredients : methyleneoxide, polymer with benzenamine, hydrogenated

4,4'-methylenebis(cyclohexylamine)

Supplemental label

elements

: Contains small amounts of sensitizing substances: N,N'-ethane-1,2-diylbis

(12-hydroxyoctadecan-1-amide)

#### 2.3 Other hazards

Other hazards which do not result in classification

: None known.

### SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

			<u>Classification</u>	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Notes
penzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≥25 - ≤51	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	-
methyleneoxide, polymer with benzenamine, hydrogenated	REACH #: 01-2119983522-33 CAS: 135108-88-2	≥10 - ≤27	Acute Tox. 3, H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 (oral) Aquatic Chronic 3, H412	
4,4'-methylenebis(cyclohexylamine)	REACH #: 01-2119541673-38 EC: 217-168-8 CAS: 1761-71-3	≤3.7	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373 (oral)	-
2,4,6-tris(dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≤3.3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	
salicylic acid	REACH #: 01-2119486984-17 EC: 200-712-3 CAS: 69-72-7 Index: 607-732-00-5	≤2.1	Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 2, H361d	-
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2	<1	Skin Sens. 1, H317 Aquatic Chronic 3, H412	-
			See Section 16 for the full text of the H statements declared above.	

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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

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 20 minutes. Get medical attention immediately. Continue rinsing until medical attention can be

obtained.

**Inhalation** : 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.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners. In case

of chemical burns, get medical attention as soon as possible.

Ingestion : 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.

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

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause damage to organs through prolonged or repeated exposure.

May cause an allergic skin reaction.

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

: This product is not classified as flammable. Fire will produce dense black smoke. Exposure to decomposition products may cause a health 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

: Use water spray to keep fire-exposed containers cool. This material is hazardous to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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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
- : Provide adequate ventilation. Do not breathe vapor or mist. Do not get in eyes or on skin. Put on appropriate personal protective equipment (see Section 8).
- **6.2 Environmental** precautions
- : Hazardous to aquatic environment. Do not allow to enter drains, water courses or
- 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.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

- Skin contact with the product and exposure to spray mist and vapor should be avoided. Avoid contact with skin and eyes. Avoid inhalation of dust from sanding. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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. Avoid release to the environment.
- 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). 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 No exposure limit value known.

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.

**PNFCs** 

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. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn (see Personal protection for both components). Provide a readily-accessible eyewash facility. Comply with the health and safety at work laws.

Individual protection measures

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Eye/face protection

: Wear eye/face protection (EN166).

**Hand protection** 

: Always wear approved protective gloves against chemicals. 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, butyl rubber

> 8 hours (breakthrough time): laminated foil

Not recommended: PVC or natural rubber (latex) gloves

**Skin protection**: Wear suitable protective clothing.

Respiratory protection : If ventilation is inadequate, use respirator that will protect against 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.

**Environmental exposure** 

controls

: For information regarding environmental protection measures, please refer to section 13 for waste handling, section 7 for handling and storage and section 1.2 for relevant identified uses of the substance or mixture and uses advised against.

### **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

Initial boiling point and

boiling range

: -15.4°C (benzyl alcohol): 205.3°C (benzyl alcohol)

Flash point : >100 °C

**Evaporation rate** : 0.007 (butyl acetate = 1) (benzyl alcohol)

Flammability (solid, gas) : Not applicable. Product is a liquid.

Upper/lower flammability or

explosive limits

: Lower: 1.3% (benzyl alcohol) Upper: 13% (benzyl alcohol)

Vapor pressure : 0.0067 kPa [room temperature] (benzyl alcohol)

Vapor density : 3.7 (benzyl alcohol)

Density : 1.13 g/cm<sup>3</sup>

Solubility(ies) : insoluble in water.

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature : 436°C (benzyl alcohol)

**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

: Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : Avoid extreme heat and freezing.

**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 classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Long term exposure causes irritation of respiratory system and mucous membranes of nose and throat. Prolonged contact can cause severe irritation or even burns. The liquid splashed in the eyes may cause irreversible damage.

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
penzyl alcohol	LC50 Inhalation Dusts and mists	Rat	4.178 mg/l	4 hours
	LD50 Oral	Rat	1230 mg/kg	-
methyleneoxide, polymer with benzenamine, hydrogenated	LD50 Oral	Rat	367 mg/kg	-
4,4'-methylenebis (cyclohexylamine)	LD50 Oral	Rat	625 mg/kg	-
2,4,6-tris (dimethylaminomethyl) phenol	LD50 Oral	Rat	1200 mg/kg	-
salicylic acid	LD50 Oral	Rat	400 mg/kg	-

Harmful if swallowed.

Irritation/Corrosion

Causes severe skin burns and eye damage.

Sensitization

May cause an allergic skin reaction.

Contains small amounts of sensitizing substances:

N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)

Mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

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**Teratogenicity** 

Not classified.

Specific target organ toxicity (single exposure)

Not classified.

Specific target organ toxicity (repeated exposure)

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** 

Not classified.

### **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 classified as environmetally hazardous according to Regulation (EC) 1272/2008. Harmful to aquatic life with long lasting effects.

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
methyleneoxide, polymer with benzenamine, hydrogenated	EC50 15.4 mg/l	Daphnia	48 hours
	LC50 63 mg/l	Fish	96 hours
4,4'-methylenebis (cyclohexylamine)	EC50 6.84 mg/l	Daphnia	48 hours

# 12.2 Persistence and degradability

: No specific data.

# 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	Bioconcentration factor [BCF]	Potential
salicylic acid	2.21 to 2.26	-	low
2,4,6-tris (dimethylaminomethyl) phenol	0.219	-	low
benzyl alcohol	0.87	1.37	low

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Other adverse effects : Not available.

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### **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.

**Special precautions** None.

### **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	UN2735	UN2735	UN2735
14.2 UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic amine)	AMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic amine)	Amines, liquid, corrosive, n.o.s. (cycloaliphatic amine)
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	Ш	Ш	III
14.5 Environmental hazards	No.	No.	No.

#### **Additional information**

ADR/RID

: Hazard identification number 80

**Limited quantity** 5 L Special provisions 274 Tunnel code (E)

**IMDG** 

: Emergency schedules F-A, S-B

Special provisions 223, 274

**IATA** 

: Quantity limitation Passenger and Cargo Aircraft: 5 L.. Packaging instructions: 852.

Cargo Aircraft Only: 60 L.. Packaging instructions: 856. Limited Quantities -

Passenger Aircraft: 1 L.. Packaging instructions: Y841.

Special provisions A3, A803

user

14.6 Special precautions for : 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 IMO instruments

: Not available.

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### **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**: Not determined.

15.2 Chemical Safety

Assessment

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

required.

### **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.

**Justification** 

1272/2008]

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]

Acute Tox. 4, H302Calculation methodSkin Corr. 1C, H314Calculation methodEye Dam. 1, H318Calculation methodSkin Sens. 1, H317Calculation methodSTOT RE 2, H373Calculation methodAquatic Chronic 3, H412Calculation method

Classification

Full text of abbreviated H

statements

: H301 Toxic if swallowed. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Full text of classifications

[CLP/GHS]

Acute Tox. 3 Acute Tox. 4 ACUTE TOXICITY - Category 3 Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Chronic 3 AQUATIC HAZARD (LONG-TERM) - Category 3

Eye Dam. 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Repr. 2 TOXIC TO REPRODUCTION - Category 2
Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1 SKIN SENSITIZATION - Category 1
Skin Sens. 1B SKIN SENSITIZATION - Category 1B

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

Date of issue/ Date of

revision

: 7/17/2020

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Notice to reader

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04.03.2020.

HARDENER 008 7067

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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