

HARDENER 006 2098



Date 18.9.2013

Previous date: 1.3.2012

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

- 1.1 Product identifier**
- 1.1.1 Commercial Product Name**
HARDENER 006 2098
- 1.1.2 Product code**
006 2098
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
- 1.2.1 Recommended use**
Painting work.
Description: Curing agent for acid catalysed lacquers and paints
- 1.3 Details of the supplier of the safety data sheet**
- 1.3.1 Supplier**
Tikkurila Oyj
- P.O.Box** P.O.Box 53
Postcode and post office FI-01301 VANTAA
FINLAND
- Telephone** +358 9 857 71
Telefax +358 9 8577 6936
- 1.3.4 Responsible for the Safety Data Sheet:**
Tikkurila Oyj, Product Safety, e-mail: productsafety@tikkurila.com
- 1.4 Emergency telephone number**
- 1.4.1 Telephone number, name and address**
Tikkurila Oyj, Environment and Safety: +358 9 857 71 (Mon-Fri 8-16 Finnish time)

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
67/548/EEC - 1999/45/EC
F, Xi; R11-36
- 2.2 Label elements**
67/548/EEC - 1999/45/EC
- | | | | |
|----|------------------|---|---|
| F | Highly flammable |  |  |
| Xi | Irritant | | |
- R-phrases(s)**
- | | |
|-----|---------------------|
| R11 | Highly flammable. |
| R36 | Irritating to eyes. |
- S-phrases(s)**
- | | |
|-----|---|
| S23 | Do not breathe vapour/spray. |
| S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S38 | In case of insufficient ventilation, wear suitable respiratory equipment. |
| S33 | Take precautionary measures against static discharges. |
| S16 | Keep away from sources of ignition - No smoking. |
| S29 | Do not empty into drains. |
- Contains:**
Ethanol
p-Toluenesulphonic acid
- 2.3 Other hazards**
Other hazards are not known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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3.2 Mixtures				
Hazardous components				
CAS/ REACH	EINECS	Chemical name of the substance	Concentration	Classification
64-17-5/ 01-2119457610-43	200-578-6	Ethanol	50 - 75 %	F; R11 Flam. Liq. 2, H225
104-15-4	203-180-0	p-Toluenesulfonic acid	10 - 20 %	Xi; R36/37/38 Skin Irrit. 2, H315 Eye Irrit. 2, H319
67-63-0/ 01-2119457558-25	200-661-7	Isopropanol	1 - 5 %	F, Xi; R11-36-67 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
78-93-3/ 01-2119457290-43	201-159-0	Methylethylketone	1 - 5 %	F, Xi; R11-36-66-67 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
7664-38-2/ 01-2119485924-24	231-633-2	Phosphoric acid	< 2 %	C; R34 Skin Corr. 1B, H314

3.3 Other information

See Section 16 for full text of R-phrases and H-statements.

4. FIRST AID MEASURES**4.1 Description of first aid measures**

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.2 Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Seek medical attention.

4.1.3 Skin contact

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

4.1.4 Eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 15 minutes and seek medical advice if necessary.

4.1.5 Ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to eyes. Inhalation of vapours may cause dizziness, headache and nausea.

4.3 Indication of immediate medical attention and special treatment needed

None.

5. FIREFIGHTING MEASURES**5.1 Extinguishing media****5.1.1 Suitable extinguishing media**Recommended: Alcohol resistant foam, CO₂, powders or water spray/mist.**5.1.2 Extinguishing media which must not be used for safety reasons**

Do not use strong water jets.

5.2 Special hazards arising from the substance or mixture

The product is classified: Highly flammable.

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required.

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5.3 Advice for firefighters

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Do not allow to enter drains or water courses.

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand or vermiculite and place in a container for disposal according to local regulations. Clean preferably with a detergent; avoid the use of solvents.

6.4 Reference to other sections

See also Section 13 for waste disposal instructions.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Vapours are heavier than air and may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Isolate from sources of heat, sparks and open flame. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. No sparking tools should be used. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Avoid inhalation of dust from sanding. Smoking, eating and drinking should be prohibited in application area.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated place away from sources of heat and direct sunlight. Keep away from sources of ignition. No smoking. Keep away from oxidising agents, from strongly alkaline and strongly acid materials. Keep container tightly closed.

7.3 Specific end use(s)

None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****8.1.1 Occupational exposure limit values**

Phosphoric acid (EU)	1 mg/m ³ (8 h)	2 mg/m ³ (15 min)
Phosphoric acid (TLV)	1 mg/m ³ (8 h)	3 mg/m ³ (15 min)
Ethanol (TLV)	1000 ppm (15 min)	
Isopropanol (TLV)	200 ppm (8 h)	400 ppm (15 min)
Methylethylketone (EU)	200 ppm (8 h)	300 ppm (15 min)
Methylethylketone (TLV)	200 ppm (8 h)	300 ppm (15 min)

8.1.2 Other information on limit values

TLV = Threshold Limit Values according to ACGIH 2009 (American Conference of Governmental Industrial Hygienists)

EU = Occupational Exposure Limit Values according to EU Directives 1998/24/EC, 2000/39/EC, 2006/15/EC, 2009/161/EU.

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

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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 vapour below the OEL, suitable respiratory protection must be worn.

8.2.2 Individual protection measures**8.2.2.1 Respiratory protection**

Use appropriate certified respirators, with gas and vapour filter A, during sanding with dust filter P2, if ventilation is insufficient. During spray-application use respirators with gas, vapour and dust filter A/P3. During continuous and long-term work the use of motor-driven or air-fed respirators is recommended.

8.2.2.2 Hand protection

Always wear protective gloves.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

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 protective glove type is e.g.: nitrile rubber (splash protection), fluoro rubber (breakthrough time > 480 min.), laminated foil (breakthrough time > 480 min.)
PVC or natural rubber gloves are not recommended.

8.2.2.3 Eye/face protection

Use safety eyewear designed to protect against splash of liquids.

8.2.2.4 Skin protection

Personnel should wear protective clothing.

When necessary, wear anti-static protective clothing made of natural fibre or of high temperature resistant synthetic fibre.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Important Health Safety and Environmental Information****9.1.1 Appearance**

Liquid, strong odour

9.1.6 Initial boiling point and boiling range 78 °C *)

9.1.7 Flash point 13 °C *)

9.1.10 Explosive properties

9.1.10.1 Lower explosion limit 3,3 vol-% *)

9.1.10.2 Upper explosion limit 19,0 vol-% *)

9.1.11 Vapour pressure 5,8 kPa (20 °C) *)

9.1.13 Relative density 0,87

9.1.14 Solubility(ies)

9.1.14.1 Water solubility Miscible

9.2 Other information

Evaporation rate (BuAc=1) : 1,7 *)

*) = Ethanol

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

See section 10.5.

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- 10.4 Conditions to avoid**
In confined or poorly ventilated spaces solvent vapours may form explosive mixtures with air. When exposed to high temperatures may produce hazardous decomposition products.
- 10.5 Incompatible materials**
Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
- 10.6 Hazardous decomposition products**
Hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc. may produce when exposed to high temperatures.

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
There are no toxicological test data available on the product itself.
- 11.1.2 Irritation and corrosion**
Irritating to eyes.
- 11.1.8 Other information on acute toxicity**
Inhalation: Long term exposure to spray mist or solvent vapours concentration 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 kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Skin contact: Repeated or prolonged contact with the preparation causes removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashed in the eyes cause eye irritation.
Ingestion: Ingestion may cause nausea, diarrhoea and vomiting.

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**
No relevant data.
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**
No relevant data.
- 12.3 Bioaccumulative potential**
No relevant data.
- 12.4 Mobility in soil**
No data available.
- 12.5 Results of PBT and vPvB assessment**
No data available.
- 12.6 Other adverse effects**
There is no ecotoxicological test data available on the product itself. The product should not be allowed to enter drains or water courses.
The product is not classified as environmentally hazardous.

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**

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Product residues:

Gather residues into waste containers. Destroy according to the rules given by local authorities. EWC-code for liquid waste is e.g 08 01 11 (waste paint and varnish containing organic solvents or other dangerous substances).

Packaging waste:

Empty cans should be recycled or disposed of in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1	UN number	1263
14.2	UN proper shipping name	paint related material
14.3	Transport hazard class(es)	3
14.4	Packing group	II
14.5	Environmental hazards	
		The product is not classified as environmentally hazardous according to international transport regulations.
14.6	Special precautions for users	
		None known.
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
		None known.
14.8	Further Information	
		EmS: F-E, S-E

15. REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
		None known.
15.2	Chemical safety assessment	
		Has not been performed.

16. OTHER INFORMATION

16.1	Additions, Deletions, Revisions	
		See section: 3.2
16.5	Full text of R-phrases and/or Hazard statements (H-statements) referred to under sections 2 and 3	
	R11	Highly flammable.
	R34	Causes burns.
	R36	Irritating to eyes.
	R36/37/38	Irritating to eyes, respiratory system and skin.
	R66	Repeated exposure may cause skin dryness or cracking.
	R67	Vapours may cause drowsiness and dizziness.
	H225	Highly flammable liquid and vapour.
	H314	Causes severe skin burns and eye damage.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
16.8	Additional information	

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This Safety Data Sheet is prepared in accordance with Annex II (EU) No 453/2010 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.

Additional information available from:

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