



HEALTH AND SAFETY PRODUCT INFORMATION

Product: Etch Primer Aerosol

Date: 1st May 2009

Product code: 472927

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1.

Name and Address
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2.

Composition/Information on ingredients		
Global description	Active substance with propellant	
Components that may contribute to hazards		
Name	Range W/W%	R-phrases
Dimethyl ether CAS 115-10-6 EINECS 204-065-8	25-50	12 F+
Acetone CAS 67-64-1 EINECS 200-662-2	2.5-25	11,36,66,67 Xi,F
Butanone CAS 78-93-3 EINECS 201-159-0	10-25	11,36,66,67 Xi,F
Xylene (mix) CAS 1330-20-7 EINECS 215-535-7	2.5-10	10,20/21,38 XN
2-Methoxy-1 methylethyl acetate CAS 108-65-6 EINECS 203-603-9	1,0-2.5	10,36 Xi
Toluene CAS 108-88-3 EINECS 203-625-9	1.0-2.5	11,38,48/20,63,65,67 Xn,F
4-methylpentan-2-one CAS 108-10-1 EINECS 203-550-1	0.1-1.0	11,20,36/37,66 Xn,F

3.

Hazards identification	
Specific hazards Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition, no smoking. Build up of explosive mixtures possible without sufficient ventilation.	
R-phrases	Description
12	Extremely flammable
36	Irritating to eyes
66	Repeated exposure may cause skin dryness or cracking
67	Vapours may cause drowsiness and dizziness

4.

First-Aid measures	
Inhalation	Supply fresh air, consult doctor in case of complaints
Skin	Generally the product does not irritate the skin
Eyes	Rinse opened eye for several minutes under running water. If symptoms persist consult doctor
Ingestion	Do not induce vomiting; call for medical help immediately

5.

Fire-Fighting measures	
Extinguishing media	
Use	CO², powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Fire extinguishing powder
Don't use	Water with full jet
Protective equipment:	
Mount respiratory protective device	

6.

Accident release measures	
Personal precautions	
Wear protective equipment. Keep unprotected persons away	
Environmental precautions	
No special measures required	
Methods for cleaning-up	
Ensure adequate ventilation	

7.

Handling and storage	
Handling	Ensure good ventilation/exhaustion at the workplace. Open and handle with care
Storage	Store in cool location. Observe official regulations on storing packagings with pressurized containers. Keep receptacle tightly sealed. Store in cool, dry conditions. Protect from heat and direct sunlight.

8.

Exposure controls/personal protection	
Name	OES
115-10-6 dimethyl ether	WEL Short term value: 958 mg/m ³ , 500 ppm Long term value: 766 mg/m ³ , 400 ppm IOELV
67-64-1 acetone	WEL Short term value: 3620 mg/m ³ , 1500 ppm Long term value: 1210 mg/m ³ , 500 ppm New, IOELV
78-93-3 Butanone	WEL Short term value: 899 mg/m ³ , 300 ppm Long term value: 600 mg/m ³ , 200 ppm IOELV, Sk, Bmgv
1330-20-7 xylene (mix)	WEL Short term value: 441 mg/m ³ , 100 ppm Long term value: 220 mg/m ³ , 50 ppm Sk
108-65-6 2Methoxy-1-methylethyl acetate	WEL Short term value: 548 mg/m ³ , 100 ppm Long term value: 274 mg/m ³ , 50 ppm New, IOELV, Sk
108-88-3 Toluene	WEL Short term value: 574 mg/m ³ , 150 ppm Long term value: 191 mg/m ³ , 50 ppm Sk
108-10-1 4 methylpentan-2-one	WEL Short term value: 416 mg/m ³ , 100 ppm Long term value: 208 mg/m ³ , 50 ppm IOELV, Sk, Bmgv
<p>Additional information: The lists valid during the making were used as basis.</p> <p>· Personal protective equipment:</p> <p>· General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols.</p>	

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Use protective suit.

9.

Physical and chemical properties

· **General Information**

Form: Liquid

Colour: According to product specification

Odour: Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: -24°C

· **Flash point:** -42°C

· **Ignition temperature:** 235.0°C

· **Self-igniting:** Product is not self-igniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

Lower: 1.8 Vol %

Upper: 18.6 Vol %

· **Vapour pressure at 20°C:** 5200.0 hPa

· **Density at 20°C:** 0.81 g/cm³

· **Solubility in / Miscibility with**

water: Not miscible or difficult to mix.

· **Solvent content:**

Organic solvents: 74.3 %

10.

Stability and reactivity

Conditions to avoid	No decomposition if used according to specifications
Materials to avoid	No dangerous reactions known
Hazardous decomposition products	No dangerous decomposition products known

11.

Toxicological information

- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**

78-93-3 butanone

Oral LD50 3300 mg/kg (rat)
Dermal LD50 5000 mg/kg (rbt)

67-64-1 acetone

Oral LD50 5800 mg/kg (rat)
Dermal LD50 20000 mg/kg (rbt)

1330-20-7 xylene (mix)

Oral LD50 8700 mg/kg (rat)
Dermal LD50 2000 mg/kg (rbt)
Inhalative LC50/4 h 6350 mg/l (rat)

108-65-6 2-methoxy-1-methylethyl acetate

Oral LD50 8500 mg/kg (rat)
Inhalative LC50/4 h 35.7 mg/l (rat)

108-88-3 toluene

Oral LD50 5000 mg/kg (rat)
Dermal LD50 12124 mg/kg (rab)
Inhalative LC50/4 h 5320 mg/l (mus)

108-10-1 4-methylpentan-2-one

Oral LD50 2100 mg/kg (rat)
Dermal LD50 16000 mg/kg (rab)
Inhalative LC50/4 h 8.3-16.6 mg/l (rat)

· **Primary irritant effect:**

- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

12.

Ecological information

Mobility	Not known to be hazardous to water
Persistence / degradability	
Bioaccumulation	
Ecotoxicity	

13.

Disposal considerations

Product	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Packaging	Disposal must be made according to official regulations

14.

Transport information			
Land transport ADR/RID (cross-border)		Maritime transport IMDG:	
ADR/RID class:	2 5F Gases	IMDG Class:	2.1
Danger code (kemler)	23	UN Number:	1950
UN-Number:	1950	Label:	2.1
Packaging group:		Packaging group:	
Hazard label:	2.1	EMS Number:	F-D,S-U
Description of goods:	1950 Aerosols	Marine polutant:	No
		Proper shipping name:	Aerosols
Air transport ICAO-T1 and IATA-DGR:			
ICAO/IATA Class:	2.1	Packaging group:	
UN/ID Number:	1950	Proper shipping name:	Aerosols, flammable,
Label:	2.1		

15.

Regulatory information
<p>15 Regulatory information</p> <p>· Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.</p> <p>· Code letter and hazard designation of product: Xi Irritant F+ Extremely flammable</p> <p>· Risk phrases: 12 Extremely flammable. 36 Irritating to eyes. 66 Repeated exposure may cause skin dryness or cracking. 67 Vapours may cause drowsiness and dizziness.</p> <p>· Safety phrases: 2 Keep out of the reach of children. 23 Do not breathe fumes/aerosol. 25 Avoid contact with eyes. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 46 If swallowed, seek medical advice immediately and show this container or label. 51 Use only in well-ventilated areas.</p> <p>· Special labelling of certain preparations: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Buildup of explosive mixtures possible without sufficient ventilation.</p> <p>· National regulations:</p> <p>· Technical instructions (air): Class Share in % NK 50-100 · VOC-CH 74.26 % · VOC-EU 603.0 g/l · Danish MAL Code 4-1</p>

Creation date	01.05.09	Production Management
Replace sheet of	05.01.09	Phill Blowers
Text of R-Statements listed in ingredients		
This leaflet is for general guidance only and may contain inappropriate information under particular conditions. Samples will be provided on request to enable customers to satisfy themselves as to the suitability of the product for any specific purpose and to assess the product under their own working conditions.		