

SAFETY DATA SHEET

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Revision nr : 7

Date : 23/1/2006

Supersedes : 1/7/2005

THINNER NO 11

NO 11

www.lisam.com



Highly flammable



Harmful

Producer

Visprox B.V.

Grijpensteinweg 19

2014 KX Haarlem Nederland

Tel. : (31) 023-5248131

Fax: (31) 023-5247862

Only in case of emergency call Visprox bv tel (+31)(0)

653293433

Responsible for distribution

Printex Marking Technologies

12113 Kirkham Rd

Poway, CA 92064

Tel 800.982.1928

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Identification of the product : Liquid.
Trade name : THINNER NO 11
Type of product : Solvent.
Use : Industrial.
Producer/Manufacturer : See address above.
EMERGENCY TELEPHONE: : CHEMTREC (800-424-9300 within US) Outside US (703-527-3887)

2 COMPOSITION / INFORMATION ON INGREDIENTS

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS No / EC No / EC Index	Symbol(s)	R-Phrase(s)
<u>4-methylpentan-2-one</u>	: 2.5 to 10 %	108-10-1 / 203-550-1 / 606-004-00-4	Xn F	11-20-36/37-66
<u>Toluene</u>	: 50 to 60 %	108-88-3 / 203-625-9 / 601-021-00-3	F Xn	11-38-48/20-63-65-67
<u>Butanone</u>	: 25 to 35 %	78-93-3 / 201-159-0 / 606-002-00-3	F Xi	11-36-66-67
<u>Cyclohexanone</u>	: 10 to 20 %	108-94-1 / 203-631-1 / 606-010-00-7	Xn	10-20

VOC(w%): 100

3 HAZARDS IDENTIFICATION

Main hazards : Irritating to eyes.
Harmful by inhalation.
Highly flammable.

4 FIRST AID MEASURES

- Inhalation : If not breathing, give artificial respiration.
Remove victim to fresh air.
- Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- Eye contact : Seek medical advice.
In case of eye contact, immediately rinse with clean water for 10-15 minutes.
- Ingestion : If swallowed seek medical advice immediately and show this container or label.
DO NOT INDUCE VOMITING.
Depending on condition of the victim : Obtain medical attention.

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5 FIRE-FIGHTING MEASURES

- Extinguishing media : Dry chemical.
Carbon dioxide.
Alcohol resistant foam.
- Not to be used : Water.
- Special exposure hazards : Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.
When heated to decomposition, emits dangerous fumes.
- Protection against fire : Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear suitable protective clothing and gloves.
- Environmental precautions : Prevent entry to sewers and public waters.
- After spillage and/or leakage : Clean up any spills as soon as possible, using a non-flammable, absorbent material to collect it.

7 HANDLING AND STORAGE

- General : Avoid all unnecessary exposure.
Store according to PGS 15.
- Precautions in handling and storage : Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures.
Take precautionary measures against static discharges.
Use only non-sparking tools.
- Storage : Close cover tightly after use.
Keep away from food, drink and animal feeding stuffs.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hand protection : Nitrilrubber Gloves.
- Skin protection : Wear suitable protective clothing.
- Eye protection : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.
- Occupational Exposure Limits : Toluene : TLV-TWA [mg/m³] : 192
Toluene : TLV-TWA [ppm] : 50
Toluene : TLV-STEL [mg/m³] : 384
Toluene : TLV-STEL [ppm] : 100
Toluene : MAC [mg/m³] : 150
Toluene : MAC [ppm] : 40
Butanone : TLV-TWA [mg/m³] : 590
Butanone : TLV-TWA [ppm] : 590
Butanone : TLV-TWA [ppm] : 200
Butanone : TLV-TWA [ppm] : 200
Butanone : TLV-STEL [mg/m³] : 885
Butanone : TLV-STEL [mg/m³] : 885
Butanone : TLV-STEL [ppm] : 300
Butanone : TLV-STEL [ppm] : 300
4-methylpentan-2-one : TLV-TWA [mg/m³] : 205
4-methylpentan-2-one : TLV-TWA [ppm] : 50
4-methylpentan-2-one : TLV-STEL [mg/m³] : 307
4-methylpentan-2-one : TLV-STEL [ppm] : 75
Cyclohexanone : TLV-TWA [ppm] : 25
Cyclohexanone : TLV-STEL [ppm] : 50
Cyclohexanone : MAC [mg/m³] : 50 H; 15 min
Cyclohexanone : MAC [ppm] : 12.5 H; 15 min

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9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid.
Odour	: Characteristic.
Initial boiling point [°C]	: 111
Final boiling point [°C]	: 150
Density	: 0.9
Flash point [°C]	: 4
Auto-ignition temperature [°C]	: 535
Explosion limits - lower [%]	: 1.0
Explosion limits - upper [%]	: 11.5

10 STABILITY AND REACTIVITY

Hazardous decomposition products	: On exposure to high temperature, may decompose, releasing toxic/flammable vapours.
Materials to avoid	: Strong acids. Strong alkalis. Strong oxidizers.

11 TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg]	: >1000
Rabbit dermal LD50 [mg/kg]	: >1000
Rat inhalation LC50 [mg/l/4h]	: >5
On ingredients	: Toluene : - Dermal : Absorbed through the skin. Toluene : Rat oral LD50 [mg/kg] : > 2000 Toluene : Rabbit dermal LD50 [mg/kg] : > 2000 Toluene : Rat inhalation LC50 [mg/l/4h] : > 5 Toluene : Reproductive toxicity : Possible risk of harm to the unborn child. Toluene : Acute effects general : Irritation to eyes, skin and respiratory tract. Toluene : Acute effects at high concentrations : Exposure to high levels may result in: dizziness, breathing failure, distress of the central nervous system and consciousness disorder. Toluene : Chronic effects : Longterm or repeated exposure may cause kidney and liver damage or failure and change of blood composition Butanone : - Dermal : Absorbed through the skin. Butanone : Rat oral LD50 [mg/kg] : 2737 Butanone : Rabbit dermal LD50 [mg/kg] : 6480 Butanone : Rat inhalation LC50 [mg/l/4h] : 34 Butanone : Sensitization : No known effects from this product. Butanone : Mutagenicity : No known effects from this product. Butanone : Teratogenicity : No data available. Butanone : Acute effects general : Nausea, vomiting, abdominal problems, irritation of the respiratory tract, risk of respiration pneumonia, risk of lung oedema, irritation of the eye fabric. Butanone : Acute effects at high concentrations : Dizziness, drowsiness, confusion, headache, feeling of drunkenness and conscience impairment, Butanone : Chronic effects : Longterm or repeated exposure can result in:redness, dryness, irritation, rash and inflammation of the skin and eczema. 4-methylpentan-2-one : - Dermal : Absorbed through the skin. 4-methylpentan-2-one : Rat oral LD50 [mg/kg] : > 2000 4-methylpentan-2-one : Rabbit dermal LD50 [mg/kg] : > 2000 4-methylpentan-2-one : Rat inhalation LC50 [mg/l/4h] : > 5 4-methylpentan-2-one : Acute effects general : Irritation to eyes, skin and respiratory tract. 4-methylpentan-2-one : Acute effects at high concentrations : Dizziness, drowsiness, confusion, headache . 4-methylpentan-2-one : Chronic effects : Longterm or repeated exposure can result in:redness, dryness, irritation, rash and inflammation of the skin and eczema. Cyclohexanone : - Dermal : Absorbed through the skin. Cyclohexanone : Rat oral LD50 [mg/kg] : 1620 Cyclohexanone : Rabbit dermal LD50 [mg/kg] : 948 Cyclohexanone : Rat inhalation LC50 [mg/l/4h] : 11

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11 TOXICOLOGICAL INFORMATION (continued)

Cyclohexanone : Acute effects general : Irritation to eyes, skin and respiratory tract.
Cyclohexanone : Chronic effects : There are potential chronic health effects to consider.

Cyclohexanone : Symptomes on intake of large quantities. : Dizziness, giddiness, headache, vomiting, heart rhythm disorder, distress of the central nervous system and consciousness disorder.

12 ECOLOGICAL INFORMATION

ABM(The Netherlands) : {9} Harmful to aquatic organisms.
Contains blacklist-substance
Cleansing effort A

LC50-96 Hour - fish [mg/l] : 10-100

48 Hour-EC50 - Daphnia magna [mg/l] : No data available.

IC50 72h Algae [mg/l] : No data available.

COD(gO2/g) : 2.5 g O2/g

BOD 5 (gO2/g) : 2

On ingredients : Toluene : Log P octanol / water at 20°C : 2.6
Toluene : LC50-96 Hour - fish [mg/l] : > 1
Toluene : 48 H-LC50 - Daphnia magna [mg/l] : > 10
Toluene : IC50 72h Algae [mg/l] : > 10
Butanone : Log P octanol / water at 20°C : .3
Butanone : Surface water poluting. : Strong.
Butanone : LC50-96 Hour - fish [mg/l] : > 1000
Butanone : 48 H-LC50 - Daphnia magna [mg/l] : > 1000
Butanone : IC50 72h Algae [mg/l] : > 1000
Butanone : Bacteria mg/l. : Toxic.
Butanone : ThOD (gO2/g) : 2.44
Butanone : BOD 5 (gO2/g) : 1.92
Butanone : Bioaccumulative potential : Not expected.
Butanone : WGK class (Germany) : 1
4-methylpentan-2-one : Log P octanol / water at 20°C : 1.31
4-methylpentan-2-one : Risk of drinking water polution (ground water). : Yes.
4-methylpentan-2-one : Biodegradation [%] : > 70
4-methylpentan-2-one : LC50-96 Hour - fish [mg/l] : > 100
4-methylpentan-2-one : 48 H-LC50 - Daphnia magna [mg/l] : > 100
4-methylpentan-2-one : IC50 72h Algae [mg/l] : > 100
4-methylpentan-2-one : Bioaccumulative potential : Not expected.
Cyclohexanone : Log P octanol / water at 20°C : .81
Cyclohexanone : Surface water poluting. : Weakly.
Cyclohexanone : Biodegradation [%] : 87
Cyclohexanone : LC50-96 Hour - fish [mg/l] : > 500
Cyclohexanone : 48 H-LC50 - Daphnia magna [mg/l] : > 400
Cyclohexanone : IC50 72h Algae [mg/l] : 32.9 mg/l.
Cyclohexanone : ThOD (gO2/g) : 2.605
Cyclohexanone : BOD 5 (gO2/g) : 1.232
Cyclohexanone : WGK class (Germany) : 1

13 DISPOSAL CONSIDERATIONS

Disposal : Dispose in a safe manner in accordance with local/national regulations.

Industrial waste number : Eural:200127.

14 TRANSPORT INFORMATION

Hazard Label(s)



Shipping name : UN 1210 / NTING INK, FLAMMABLE OR PRINTING INK RELATED MATERIAL,
3, II

- UN No. : 1210

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14 TRANSPORT INFORMATION (continued)

- H.I. nr : : 33
- ADR/RID : : Class : 3
Group : II
- IMO-IMDG : : Packaging group: II
Class 3
- ICAO/IATA : : 1210

15 REGULATORY INFORMATION

Symbol(s) : Harmful.
Highly flammable.
R Phrase(s) : R11 : Highly flammable.
R20 : Harmful by inhalation.
R36 : Irritating to eyes.
S Phrase(s) : S3 : Keep in a cool place.
S9 : Keep container in a well-ventilated place.
S16 : Keep away from sources of ignition - No smoking.
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33 : Take precautionary measures against static discharges.
S35 : This material and its container must be disposed of in a safe way.
S51 : Use only in well-ventilated areas.
S59 : Refer to manufacturer/supplier for information on recovery/recycling.
P Phrase(s) : P201-For professional use only.
Labelling : Contains :
Toluene.

16 OTHER INFORMATION

Text of R-Phrases in § 2 : R10 : Flammable.
R11 : Highly flammable.
R20 : Harmful by inhalation.
R36 : Irritating to eyes.
R36/37 : Irritating to eyes and respiratory system.
R38 : Irritating to skin.
R48/20 : Harmful : danger of serious damage to health by prolonged exposure through inhalation.
R63 : Possible risk of harm to the unborn child.
R65 : Harmful : may cause lung damage if swallowed.
R66 : Repeated exposure may cause skin dryness or cracking.
R67 : Vapours may cause drowsiness and dizziness.

The contents and format of this SDS are in accordance with EEC Commission Directive 2001/58/EC.

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