

SAFETY DATA SHEET

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Revised edition no : 2

Date : 15/2/2010

Supersedes : 2/2/2006

ISO 9001 version 2008

ISOTEMP

C12214

www.lisam.com



F+ : Extremely flammable



Xn : Harmful

Producer

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

Trade name : ISOTEMP
Identification of the product : Aerosol.
Type of product : Varnish.
Company identification : See producer.

2 HAZARDS IDENTIFICATION

Risk Phrases : Extremely flammable. In use, may form flammable/explosive vapour-air mixture.
Primary route of exposure : Inhalation.
Symptoms relating to use
- Inhalation : Harmful by inhalation. Vapours may cause drowsiness and dizziness. Headache.
- Skin contact : Harmful in contact with skin. Irritating to skin.
- Eye contact : Direct contact with the eyes is likely irritating. Redness. Pain.
- Ingestion : Ingestion unlikely.

3 COMPOSITION / INFORMATION ON INGREDIENTS

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

Substance name	Contents (%)	CAS No / EC No / Index No	Symbol(s)	R-Phrase(s)
<u>Dimethyl ether</u>	: < 40 %	115-10-6 / 204-065-8 / 603-019-00-8	F+	12
<u>Xylene</u>	: < 20 %	1330-20-7 / 215-535-7 / 601-022-00-9	Xn	10-20/21-38
<u>N-butyl acetate</u>	: < 20 %	123-86-4 / 204-658-1 / 607-025-00-1		10-66-67
<u>Acetone</u>	: < 20 %	67-64-1 / 200-662-2 / 606-001-00-8	F Xi	11-36-66-67
<u>Cyclohexanone</u>	: < 10 %	108-94-1 / 203-631-1 / 606-010-00-7	Xn	10-20
<u>Ethylbenzene</u>	: < 5 %	100-41-4 / 202-849-4 / 601-023-00-4	F Xn	11-20

4 FIRST AID MEASURES

First aid measures

- Inhalation : If overcome by exposure, remove victim to fresh air immediately. Allow the victim to rest. Seek medical advice.
- Skin contact : Remove contaminated clothing and shoes. Rinse immediately with plenty of water.
- Eye contact : Rinse immediately with plenty of water. Seek medical attention immediately.
- Ingestion : Ingestion unlikely. Rinse mouth. Seek medical attention immediately.

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5 FIRE-FIGHTING MEASURES

- Specific hazards : Vapour mixes readily with air, forming explosive mixtures. When exposed to heat or if contaminated by certain impurities, may decompose to generate highly volatile gases which may over pressure and violently rupture closed containers.
- Extinguishing media
- Suitable extinguishing media : Powder. Carbon dioxide. Foam. Water fog.
 - Unsuitable extinguishing media : Do not use a heavy water stream.
- Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures : Use water spray or fog for cooling exposed containers.

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions : Equip cleanup crew with proper protection.
- Environmental precautions : Notify authorities if product enters sewers or public waters.
- Clean up methods : Remove ignition sources. Clean up any spills as soon as possible, using an absorbent material to collect it. Dilute residues and flush. On land, sweep or shovel into suitable containers.

7 HANDLING AND STORAGE

- Precautions in handling and storage : Keep away from sources of ignition - No Smoking.
- Storage : Protect from freezing. Keep at temperature not exceeding 50° C. Store in dry, cool, well-ventilated area. Use special care to avoid static electric charges. No smoking.
- Storage - away from : Direct sunlight. Heat sources. Sparks. Open flame.
- Handling : Handle in accordance with good industrial hygiene and safety procedures. Keep away from food, drink and animal feeding stuffs.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Personal protection
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
 - * - Hand protection : Gloves. The choice of appropriate gloves depends not only on the material, but also on other quality criteria that may vary from one manufacturer to another. As the product is a preparation made from several substances, glove material resistance may not be calculated in advance and must be tested before use. The exact penetration time of glove material is to be determined by the manufacturer of protective gloves and respected.
 - Skin protection : Wear suitable protective clothing.
 - Eye protection : Safety glasses.
- Industrial hygiene : Provide adequate ventilation to minimize dust and/or vapour concentrations. When using, do not eat, drink or smoke.
- Exposure controls
- Dimethyl ether : VME (mg/m³) : 1920
 - Dimethyl ether : VME (ppm) : 1000
 - Xylene : VME (ppm) : 50
 - Xylene : VME (mg/m³) : 221
 - Xylene : VLE (ppm) : 100
 - Xylene : VLE (mg/m³) : 442
 - N-butyl acetate : VLE (ppm) : 200
 - N-butyl acetate : VME (mg/m³) : 710
 - N-butyl acetate : VME (ppm) : 150
 - N-butyl acetate : VLE (mg/m³) : 940
 - Acetone : VME (mg/m³) : 1210
 - Acetone : VME (ppm) : 500
 - Cyclohexanone : VME (ppm) : 10
 - Cyclohexanone : VME (mg/m³) : 40.8
 - Cyclohexanone : VLE (ppm) : 20
 - Cyclohexanone : VLE (mg/m³) : 81.6
 - Ethylbenzene : VLE (ppm) : 200
 - Ethylbenzene : VME (mg/m³) : 442

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8 EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

Ethylbenzene : VME (ppm) : 100
Ethylbenzene : TLV[©] -TWA [ppm] : 100
Ethylbenzene : VLE (mg/m³) : 884

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid.
Colour : Colourless.
Odour : Solvent.
pH value : Not established.
Boiling point [°C] : < 0°C
Density : 0.825
Solubility in : Solvent.
Flash point [°C] : < 0°C

10 STABILITY AND REACTIVITY

Hazardous decomposition products : None under normal conditions. Thermal decomposition generates : Carbon dioxide. Carbon monoxide.
Hazardous reactions : In use, may form flammable/explosive vapour-air mixture.
Materials to avoid : Strong acids. Strong bases. Strong oxidizers.
Conditions to avoid : Heat. Direct sunlight. Open flame. Sparks.

11 TOXICOLOGICAL INFORMATION

Toxicity information : No data available.
Acute toxicity : No data available.
Chronic toxicity
- Inhalation : Harmful by inhalation. Vapours may cause drowsiness and dizziness.
- Dermal : Harmful in contact with skin.
Irritating to skin.
- Ocular : Irritating to eyes. Burning sensation.
- Ingestion : Ingestion may cause nausea, vomiting and diarrhea.

12 ECOLOGICAL INFORMATION

On product : No data available.

13 DISPOSAL CONSIDERATIONS

General : Container under pressure. Do not drill or burn even after use. When not empty dispose of this container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations. Do not empty into drains.

14 TRANSPORT INFORMATION

Shipping name : UN1950 AÉROSOLS, 2.1, 5F
UN No. : 1950
Land transport
ADR/RID : Group : F
Class : 2
Sea transport
- IMO-IMDG code : Class 2.1
- EMS-Nr : 2-13

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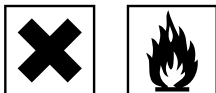
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14 TRANSPORT INFORMATION (continued)

- IMDG-Marine pollution : No.
Air transport
- IATA - Class or division : Class 2.1
- IATA-Label : Flamm. Gas

15 REGULATORY INFORMATION

- Symbol(s)



: Xn : Harmful
F+ : Extremely flammable

- * - R Phrase(s)

: R12 : Extremely flammable.
R20/21 : Harmful by inhalation and in contact with skin.

- S Phrase(s)

: S2 : Keep out of the reach of children.
S16 : Keep away from sources of ignition - No smoking.
S23 : Do not breathe spray.
S36/37 : Wear suitable protective clothing and gloves.
S46 : If swallowed seek medical advice immediately and show this container or label.
S51 : Use only in well-ventilated areas.

Safety advises

: 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. Use this aerosol only for the applications for which it is intended.

France

: Tableaux des maladies professionnelles prévus à l'article R, 461-3 du code du travail.
Tableau n°84 - Affections engendrées par les solvants organiques liquides à usage professionnel.

16 OTHER INFORMATION

Recommended uses and restrictions : See product bulletin for detailed information.

Text of R-Phrases in § 3

: R10 : Flammable.
R11 : Highly flammable.
R12 : Extremely flammable.
R20 : Harmful by inhalation.
R20/21 : Harmful by inhalation and in contact with skin.
R36 : Irritating to eyes.
R38 : Irritating to skin.
R66 : Repeated exposure may cause skin dryness or cracking.
R67 : Vapours may cause drowsiness and dizziness.

- * Further information

: Revision - See : *

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

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