VARNISH SOLVENT

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

Product name:	VARNISH SOLVENT
Description:	Solvent-based lacquer
Company:	SATINE
Address:	Avda. Corts Valencianes 26, Bloque 1, 46015 Valencia
Telephone:	969 100 100
Website:	http://satine.es

2 COMPOSITION/INFORMATION ON INGREDIENTS.

Description:

Two-component polyurethane resin.

Composition:

Component	CAS No.	% by weight (approx.)	Hazard symbol	Index No.	EINECS No.	R-phrases
Polyol	Confidential	-	-	-	-	-
Xylene	1330-20-7	<10	Xn	601-023-00-9	-	10-20/21-38
1-Acetoxybutane	123-86-4	<10	F	607-025-00-1	203-745-1	10
1-Methyl-2-methoxyethyl acetate	108-65-6	<10	Xi	607-195-00-7	-	10-36
Toluene	108-88-3	10	Xn	601-021-00-3	-	11-20
2,4- / 2,6-Toluene diisocyanate (TDI)	26471-62-5 (584-84-9 / 91-08-07)	<0.5	T	615-006-00-4	-	23-36/37-42

3 HAZARDS IDENTIFICATION.

Flammable. Harmful by inhalation. Irritating to skin and eyes.

4 FIRST AID MEASURES.

Eye contact:

Rinse carefully and thoroughly with water. Consult an ophthalmologist.

Skin contact:

Wash with plenty of soap and water and remove contaminated clothing. Do not use solvents or thinners.

Inhalation and ingestion:

In case of respiratory tract irritation or ingestion, consult a doctor.

5 FIRE-FIGHTING MEASURES.

Extinguishing media:

In a fire involving electrical equipment, dry chemical powder is particularly suitable because of its non-conductivity.

Small fires	Use carbon dioxide, dry chemical powder, alcohol-resistant foam, sand or earth. DO NOT USE A SOLID WATER JET. Use water spray in large quantities.
Large fires	Use alcohol-resistant foam or water spray.

Recommendations:

Fire produces dense, acrid black smoke. Exposure to decomposition products may be hazardous to health. Suitable respiratory protective equipment may be necessary. Keep containers exposed to fire cool with water. Prevent fire-fighting run-off from entering drains or watercourses.

6 ACCIDENTAL RELEASE MEASURES.

Extinguish flames, no smoking, avoid sparks. Avoid contact with skin, eyes and clothing. Eliminate possible ignition sources and ventilate the area. Avoid breathing vapours.

Apply the safety measures listed in sections 7 and 8. Stop and collect the spillage with non-combustible absorbent materials (e.g. earth, sand, vermiculite, diatomaceous earth). Transfer the product and the absorbent to a suitable container.

Decontaminants:

- Flammable decontaminant (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts), concentrated ammonia solution (d. 0.880) (5 parts).
- Non-flammable decontaminant: sodium carbonate (5 parts), water (95 parts).

Pour the decontaminant over the residues and leave for several days in an unsealed container until no reaction occurs. Then close the container and dispose of it in accordance with local legislation (see section 13). Do not allow it to enter drains or watercourses.

If the product contaminates lakes, rivers or drains, inform the relevant authorities in accordance with local legislation.

7 HANDLING AND STORAGE.

Persons with a history of asthma, allergies or chronic or recurrent diseases must not work in any process in which these preparations are used.

Handling:

- Vapours are heavier than air and may spread along the floor. Explosive mixtures with air may form.
- Avoid the formation of flammable or explosive vapour concentrations in the air; avoid vapour concentrations above the occupational exposure limits during work.
- The preparation may become electrostatically charged: always use earthing (grounding) connections when transferring the product. Operators must wear antistatic footwear and clothing.
- Keep the container tightly closed. Exposure to atmospheric moisture and water must be minimised; otherwise CO_2 will be formed, which in closed containers will cause overpressure.
- Take precautions when reopening containers that have already been opened.
- Keep them away from possible sources of heat, sparks or flames. Do not use tools that may generate sparks.
- Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mists.
- Never use pressure to empty the containers, as they are not pressure-resistant vessels.
- Smoking, eating and drinking must be prohibited in the application area.
- Comply with occupational health and safety legislation.
- Keep the product in containers made of a material identical to the original.
- When operators are inside the paint line, whether or not they are applying, and ventilation is not sufficient to continuously control the concentration of particles and solvent vapour, they must wear air-supplied respiratory equipment during the painting process until the concentration of particles and solvent vapour is below the exposure limits.

Storage:

- Store in accordance with local legislation. Observe the indications on the label.
- Store containers between 5 and 30 °C in a dry, well-ventilated place, away from heat sources and direct sunlight.
- Keep away from ignition sources, oxidising agents, acidic or alkaline materials, and amines. No smoking. Prevent entry of unauthorised persons.
- Once opened, containers must be properly resealed and placed upright to prevent spillage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION.

Provide adequate ventilation, which can be achieved by good local exhaust ventilation and a good general extraction system. If this is not sufficient to keep the concentrations of particles and solvent vapours below the exposure limit during work, suitable respiratory equipment must be worn.

Exposure limits:

Occupational exposure limits for:

Substance	STEL		TWA	
	ppm	mg/m³	ppm	mg/m³
Xylene/Toluene	-	-	25	123
Methoxypropyl acetate	150	651	100	434

STEL:	Short-term exposure limits
TWA:	Long-term exposure limits

Exposure limit value:

In air: TLV-TWA according to ACGIH-1991: 750 ppm (1780 mg/m³) (*)

(*) TLV-TWA: time-weighted average concentration, for a normal 8-hour working day and 40-hour working week, to which most workers may be repeatedly exposed day after day without adverse effects.

Personal protection:

Respiratory:	Avoid inhalation of vapours. If this cannot be achieved by appropriate occupational safety measures, respiratory protection must be used.
Eyes:	If there is a risk of splashing during handling, suitable eye protection shall be used.
Skin:	Avoid prolonged and repeated contact by wearing suitable protective clothing.
Oral:	Precautions in handling and hygiene must always be observed.

9 PHYSICAL AND CHEMICAL PROPERTIES.

Physical state:	Liquid
Colour:	Transparent
Density:	0.92 kg/l at 20 °C (ASTM D4052)
Viscosity (approx.):	A-30 s F-4; B-11 s F-4
Boiling point:	Initial: 75 °C; range: 75 °C - 160 °C (ASTM D1078)
Solubility in water:	Insoluble
Vapour pressure:	Approx. 7-9 mbar at 20 °C
Flash point:	+21 °C
Autoignition temperature:	350 °C
Explosion limits in air:	Lower: 1.2 % vol/vol; upper: 7.5 % vol/vol

10 STABILITY AND REACTIVITY.

Hazardous decomposition products:

No hazardous decomposition products if stored and handled correctly.

11 TOXICOLOGICAL INFORMATION.

Aromatic hydrocarbons, such as toluene and xylene, irritate the skin and mucous membranes and, when inhaled in high concentrations, have a narcotic effect.

We neither know of nor expect any harmful effects from products of this class if handled properly, in accordance with normal occupational hygiene.

12 ECOLOGICAL INFORMATION.

Ecotoxicity:

With regard to the environment, this product can be considered, at most, as slightly toxic. With regard to the aquatic environment it presents an indirect risk, since it may reduce the oxygen present.

DO NOT ALLOW TO ENTER SURFACE WATERS, WASTE WATER OR SOIL.

Water hazard class (WGK):	2 - hazardous to water
WGK:	German water classification

13 DISPOSAL CONSIDERATIONS.

It can be incinerated in a suitable facility, observing the provisions issued by the local authorities.

14 TRANSPORT INFORMATION.

Transport only in accordance with the ADR/TPC regulations for road transport, RID/TPF for rail, IMDG for sea and ICAO/IATA for air transport.

Transport mode	Details	
Road and rail (ADR/TPC - RID/TPF)	Class	3
	Item	31C
	Packing group	III
	Label	3 - Flammable liquid
	Document	Consignment note
Sea (IMDG)	Class	3.3
	UN No.	1263
	Marine pollutant	NO
	Label	3 - Flammable liquid
	FEm	3.05
	GPA	310-313
	Packing group	III
	Document	Bill of lading
Air (ICAO/IATA)	Class	3
	UN No.	1263
	Packing group	III
	Label	3 - Flammable liquid
	Document	Air waybill

15 REGULATORY INFORMATION.

In accordance with the Regulation on dangerous preparations R.D. 1078/93, the preparation is labelled as follows:

Symbols:	Xn, Xi
Contains:	Xylene

R-phrases:	R-10 Flammable. R-20/21 Harmful by inhalation and in contact with skin. R-38 Irritating to skin.
S-phrases:	S23 Do not breathe vapour. S25 Avoid contact with eyes. S51 Use only in well-ventilated areas.

16 OTHER INFORMATION.

The information in this safety data sheet is based on current knowledge and on the laws in force of the EC and of the Member States, insofar as the users' working conditions are beyond our knowledge and control.

The information contained in this safety data sheet only constitutes a description of the safety requirements of the preparation and must not be regarded as a guarantee of its properties.