

MATERIAL SAFETY DATA SHEET

In accordance with the modified EC Directive 91/155/CEE.

Created on: 2005/08/12
Version: 1.0

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Product name:

PARATHANE SOLVENT

1. Identification of the substance / preparation and of the company / undertaking

Product name: **PARATHANE SOLVENT**

Distributor: SIPLAST / ICOPAL
12, rue de la Renaissance
92184 – ANTONY Cedex France
Tél. : (33).1.40.96.35.00 Fax: (33).1.46.66.24.85

French Emergency contact: INRS tel: 01 45 42 59 59
Institut National de Recherche sur la Sécurité.

Uses: Solvent for cleaning tools and thinning PARATHANE resins.

2. Composition / Information on ingredients

Chemical designation of preparation:
Pur organic compounds..

Contains: Xylene (mixture of isomers)
CAS N°: 1330-20-7 EC Index: 601-022-00-9 EC N°: 215-535-7
EC labelling: **Xn – Harmful** ; R 10-20/21-38
Content: 100 %.

3. Hazards identification

This substance is regulated according to 67/548/EEC and 1999/45/EC European Directives, their adaptations and annexes.

Main hazards: The substance is flammable.
The substance is harmful in case vapours inhalation and skin contact.
The substance is irritating to skin.

Other hazards: Electrostatic charges may build up.

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4. First aid measures

If the event of inhalation:	Bring the victim into the fresh air; keep him (her) warm and calm. If respiratory symptoms appear or persist, seek medical advice.
Skin contact :	Wash with plenty of water during few minutes. Remove contaminated clothing. Seek medical advice if an irritation appears.
Eye contact:	Rinse thoroughly with plenty of water during at least 15 minutes keeping the eyes wide open. if Seek an eye specialist if an irritation appears or persists.
In the event of ingestion:	Clear the air ways. Rinse the mouth with water. Do not induce vomiting (danger of pulmonary aspiration). Do not make drink. Seek immediately medical advice.
Advices for the doctor:	Risk of pulmonary oedema if vapours are absorbed into the lungs.

5. Fire-fighting measures

Appropriate extinction methods:	Chemical powder, foam or CO ₂ .
Disadviced:	Sprayed water, jet of water.
Particular risks in the event of fire:	Flammable. May form flammable/explosive vapour-air mixture.
Special maintenance equipment:	Wear self-contained breathing apparatus is necessary in dangerous area.
Attached information:	Prevent fire-fighting water from entering waste water or groundwater.

6. Accidental release measures

After spillage / leakage:	Do not inhale vapours. Avoid contact with skin. Personal protection: See chapter 8.
Cleaning up / absorption:	Recover the product by mixing it with an inert medium (sand or other absorbent product) and then place it in an airtight container. Disposal (see chapter 13). Rinse off the residues and the contaminated area using a detergent, and then thoroughly rise with water.
Environmental protection:	Do not throw away the product in the environment.

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7. Handling and storage

Handling: Avoid direct contact with the product. Ventilate the work place. Prevent accumulation of electrostatic charging.

Storage: Store in original containers at room temperature between 15°C and 25°C, in a well-ventilated place, away from ignition sources.

8. Exposure controls/personal protection

Specific control parameters: Xylene :

VME (France): 435 mg/m³ (50 ppm) EC value.
VLE (France): 650 mg/m³ (100ppm) EC value.

Technical measures: Exhaust ventilation hood or explosion-proof mechanical ventilation for the work area.
Periodic monitoring of the atmosphere at the worksite.

Individual protection equipment:

Respiratory protection: Cartridge mask (with filter A for organic vapours) or self-breathing apparatus.
Hands protection: Nitrile rubber gloves or Viton®.
Eyes protection: Safety glasses.
Skin protection: Anti-static article of clothing.

Work hygiene: Remove all contaminated clothing. Wash hands and face after work. When using do not eat, drink or smoke.

9. Physical and chemical properties

Form: liquid

Color: colourless

Odour: aromatic

pH value: not applicable

Dynamic viscosity at 20°C: 0,6 mPa*s

Stage changes: Melting point: -34°C
Boiling point: 137 - 143°C

Flash point: 24 - °C (closed cup)

Explosive limits: Lower: 1,7% vol.
Upper: 7,5% vol.

Density (kg/dm³): approx. 0,87 at 20°C

Water solubility: Insoluble (0,2 g/L)

Solubility in solvents: miscible in organic solvents

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Auto-ignition temperature: > 460°C
Percentage of volatile organic compounds (COV): 100 %
Log P(o/w): 3,2

10. Stability and reactivity

Stability: The product is stable in case of normal uses.
Conditions to avoid: Intense heating.
Incompatible materials: Strong oxidizing, sulphuric and nitric acids, sulphur.
Hazardous decomposition products: In event of fire: See chapter 5.
Other information: Substance incompatible with certain plastics.

11. Toxicological information

Acute toxicity: For ingredient: Xylene (isomers mixture)
LD₅₀ (oral, rat) = 2840 mg/kg.
LD₅₀ (Skin route, rabbit) = 4500 mg/kg.
LC₅₀ (Inhalation, rat) = 6350 mg/L/ 4h (vapours)
Skin irritation test (rabbit). irritant

Long term toxicity: The substance is not mentioned on the IARC carcinogen product lists.

Toxicological informations: In case of vapours inhalation: irritation of the respiratory tract, cough. Harmful if absorbed into the lungs. Possible pulmonary oedema.
In the event of contact with skin: irritation. Danger of skin absorption and degreasing effect. Possible dermatitis in case of prolonged and repeated contact.
In the event of contact with eyes: slight irritation.
In the event of ingestion: Irritation of the digestive system, abdominal pains, nausea and vomiting. Danger: may be aspirated into the lungs in the event of vomiting.
After absorption: may cause giddiness, headache, drowsiness or dizziness. Possible narcosis in severe cases.

Other information: Alcohol reinforces the substance's toxic effect.

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12. Ecological information

Data on the main component:

Mobility on the Environment:

Given its characteristics, this substance is mobile in the air or in the soil.

Biodegradability and bio-accumulation:

The substance have a good degradation.

Log P(o/w) = 3,2.

There may be significant bioaccumulation for this substance (Log / Po/w > 3).

Biological effects:

Harmful effects due to gas exchanges being limited on the surface of stagnant waters. Harmful effects on organisms living in the soil if spread into the natural environment.

Ecotoxicologic effects:

Toxic to aquatic organisms

CL50 fishes = 8 mg/L /96 h

CE50 daphnia = 10 mg/L /72 h

CI50 algae = 7,4 mg/L /48 h

Other information about ecology:

No ecological problems are to be expected when the product is handle and use with due care and attention.

Hazard for drinking water supplies.

Prevent spillage of the product in the environment.

13. Disposal considerations

Product disposal:

Chemical products and residues generally count as special waste.

Destruction of residues by incineration in approved installation.

Destroying empty containers:

Recycling after incineration or salvage by incineration in approved installation.

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14. Transport information			
Shipping regulations:	ADR/RID/ADNR	IMDG/OMI	IATA/ICAO
Class:	3	3	3
UN Number:	1307	1307	1307
Packaging group:	III	III	III
Transport labelling:	Xylenes		Xylenes
Technical name:			

15. Regulatory information

Labelling in accordance with EC directives and adapted versions of them:

The product is concerned by European laws; it is labelled according to 1999/45/EC Directives and their adaptations and annexes.

Symbol(s): Xn – Harmful.

R-Phrase(s): 10 – Flammable.
20/21 – Harmful by inhalation and in contact with skin.
38 Irritating to eyes, respiratory system and skin.

S-Phrase(s): 25 Avoid contact with eyes.

Main compounds of the mixture are mentioned in the European EINECS inventory of substances.

EC number: -----

French regulations:

About xylene:
Toxicologic sheet of INRS N°: N° 77.
Table of occupational diseases no. (France): 4bis and 84
I.C.P.E nomenclature. N°: 1430.

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16. Other information

R sentences for dangerous ingredients quoted in chapters 2 and 3 of this MSDS:

R 10 – Flammable.
R 20/21 – Harmful by inhalation and in contact with skin.
R 38 – Irritating to skin.

Origin:

This data sheet was realized on the basis of information supplied by the manufacturer.

This sheet rounds off the technical instructions but does not replace them. The information given above is based on the present state of our knowledge and experience relating to the product involved at the time of updating. It is provided in good faith.
The attention of users moreover is drawn to possible risks encountered if this product is used for purposes other than those for which it was designed.
Under no circumstances does this sheet release users from knowing and applying all regulations governing their businesses.