

1. IDENTIFICATION OF THE SUBSTRATE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name/designation: Caltech Solvent.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Intended for use as a paint thinner.

1.3 Manufacturer/Supplier

Supplier:
Alumasc Building Products Ltd
White House Works, Bold Road, Sutton, St Helens, Merseyside, United Kingdom, WA9 4JG
Tel: +44 (0)1744 648400
e-mail: technical@alumascroofing.com

1.4 Manufacturer/Supplier

Emergency telephone: 01744 648 400 - (Mon-Thurs – 08.30-17.00 Fri – 08.30-16.00)

2. HAZARDS IDENTIFICATION

Hazards:

Flammable. Harmful by inhalation and in contact with skin. Irritating to eyes and skin.

Classification (1999/45):

Xn;R20/21, Xi;R36/38, R10.

Environment:

The product is not expected to be hazardous to the environment.

Physical & chemical hazards:

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

Human health:

In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Risk of serious damage to eyes. Vapours/aerosol spray may irritate the respiratory system. Repeated exposure may cause skin dryness or cracking.

3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

Substances:

Removes surface residue from surfaces and promotes adhesion,

Mixture:

Name	EC No.	CAS-No.	Content %	Classification (67/548/EEC)
Xylene	215-535-7	1330-20-7	50-75%	R10 Xn; R20/21 Xi; R38
2-Methoxy-1-Methylethyl Acetate	203-603-9	108-65-6	25-50%	R10 Xi; R36

The Full Text for all R-Phrases is Displayed in Section 16.

4. FIRST AID MEASURES

General information: General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.

Inhalation: Place unconscious person on the side in the recovery position and ensure breathing can take place. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

Ingestion: Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

Skin contact: Use appropriate hand lotion to prevent defatting and cracking of skin. Immediately remove contaminated clothing. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

Eye contact: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Fire can be extinguished using: Water spray, fog or mist. Foam, carbon dioxide or dry powder. Dry chemicals, sand, dolomite etc. Do not use water jet as an extinguisher, as this will spread the fire.

Special fire-fighting procedures:

Use pressurised air mask if product is involved in a fire. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

Unusual fire & explosion hazards:

Fire causes formation of toxic gases.

Protective measures in fire:

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions:

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

Spill clean-up methods:

Keep combustibles away from spilled material. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

7. HANDLING AND STORAGE

Usage precautions:

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Vapours are heavier than air and may spread near ground to sources of ignition.

Storage precautions:

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Avoid contact with oxidising agents.

Storage class:

Flammable liquid storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
2-Methoxy-1-Methylethyl Acetate	WEL	50 ppm(Sk)	274	100 ppm(Sk)	548	
Xylene	WEL	50 ppm(Sk)	220	100 ppm(Sk)	441	Sk

WEL: Workplace Exposure Limit.

Sk: Can be absorbed through skin.

Ingredient comments:

WEL: Workplace Exposure Limits.

Protective equipment:



Process conditions:

Provide eye wash station.

Engineering measures:

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. All handling to take place in well-ventilated area.

Respiratory equipment:

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. Wear mask supplied with: Gas cartridge suitable for organic substances.

Hand protection:

For prolonged or repeated skin contact use suitable protective gloves. Use protective gloves made of: Neoprene. Nitrile. Rubber (natural, latex).

Eye protection:

Wear splash-proof eye goggles to prevent any possibility of eye contact.

Other protection:

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures:

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid.
Colour:	Colourless.
Odour:	Characteristic. Hydrocarbon.
Solubility:	Immiscible with water.
Relative density:	0.90 Approx. @20°C.
Vapour density (air=1):	Heavier than air.
Flash point (°C):	23°C. CC (Closed cup).
Flammability limit - lower (%):	1.1.
Flammability limit - upper(%):	6.6.

10. STABILITY AND REACTIVITY

Stability:

No particular stability concerns.

Conditions to avoid:

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

Hazardous decomposition products:

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11. TOXICOLOGICAL INFORMATION

General information:

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation:

In high concentrations, vapours may irritate throat and respiratory system and cause coughing. In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Gas or vapour is harmful on prolonged exposure or in high concentrations.

Ingestion:

Gastrointestinal symptoms, including upset stomach.

Skin contact:

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Irritating to skin. May be absorbed through the skin.

Eye contact:

Irritation of eyes and mucous membranes.

Xylene:

Toxic dose 1 - LD 50: 3523 mg/kg (oral rat).
Toxic Conc. - LC 50: 6191 mg/l/4h (inh-rat).

Other Health Effects:

May cause skin and eye irritation.

Methoxy-1-Methylethyl:

Acetate toxic dose 1 - LD 50: 5135 mg/kg (oral rat).

12. ECOLOGICAL INFORMATION

Ecotoxicity:

The product is not expected to be hazardous to the environment.

Name:

Xylene.

Partition Coefficient:

3.2.

Ecotoxicity:

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product must not be allowed to enter drains or water courses.

IC 50, 72 Hrs, Algae, mg/l: 2.2.

Mobility:

Water: Insoluble, the product will spread over the surface and rapidly evaporate. Soil: The product has only slight mobility in the soil and will partially evaporate.

Bioaccumulative potential:

Likely to bio-accumulate, but with short retention of the order of a week or less.

Degradability:

The product is readily biodegradable.

Name:

2-Methoxy-1-Methylethyl Acetate.

Ecotoxicity:

The product must not be allowed to enter drains or water courses. Not considered dangerous to aquatic organisms.

LC 50, 96 Hrs, Fish mg/l: 100-180.
EC 50, 48 Hrs, Daphnia, mg/l: 408-500.

Mobility:

Readily absorbed into soil.

Bioaccumulative potential:

This material is not expected to significantly bioaccumulate. Log Pow <3 ; BCF <100.

Degradability:

The product is readily biodegradable.

13. DISPOSAL CONSIDERATIONS

General information:

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

Disposal methods:

Dispose of waste and residues in accordance with local authority requirements. Make sure containers are empty before discarding (explosion risk). Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

14. TRANSPORT INFORMATION



Proper shipping name:
Environmentally hazardous
substance/marine pollutant:
UN No. Road:
ADR Class No.:
ADR Class:
ADR pack group:
Tunnel restriction code:
Hazard No. (ADR):
ADR label No:
Hazchem code:
UN No. Sea:
IMDG Class:
IMDG pack GR:
EMS:
UN No. Air:
Air Class:
Air pack GR:

Flammable Liquid, N.O.S. (Xylene, 2-Methoxy-1-Methylethyl Acetate).
No.
1993.
3.
Class 3: Flammable liquids.
III.
(D/E).
30.
3.
.3Y.
1993.
3.
III.
F-E, S-E.
1993.
3.
III.

15. REGULATORY INFORMATION

Labelling:



Contains:

Xylene.

Risk phases:

R10: Flammable.
R20/21: Harmful by inhalation and in contact with skin.
R36/38: Irritating to eyes and skin.

Safety phases:

S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37: Wear suitable protective clothing and gloves.
S51: Use only in well-ventilated areas.
S60: This material and its container must be disposed of as hazardous waste.

16. OTHER INFORMATION

EU Directives:

System of specific information relating to Dangerous Preparations. 2001/58/EC. Dangerous Preparations Directive 99/45/EC.

Approved Code of Practice:

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

National Regulations:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40)

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.

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