

PRODUCT SAFETY DATA SHEET

1. IDENTIFICATION OF PRODUCT & COMPANY

PRODUCT NAME - BULK ELECTROMECH SOLVENT CLEANER

INTENDED USE - No relevant information.

SUPPLIER - SOLVITOL Ltd., SHADON WAY, PORTOBELLO INDUSTRIAL ESTATE, BIRTLEY, COUNTY DURHAM, DH3 2RE

Emergency Tele - 0191 4109131

2. COMPOSITION/INFORMATION OF INGREDIENTS

Halogenated Aliphatic Hydrocarbon.

For details of substances presenting a health hazard within the meaning of the Chemicals (Hazard Information & Packing) regulations 1993 see under Section 8 of this Safety Data Sheet.

3. HAZARDS IDENTIFICATION

High concentrations are irritating to the respiratory tract. May cause nausea, dizziness, headaches, vomiting or narcosis.

Harmful by inhalation

4. FIRST AID MEASURES

GENERAL - In all cases of doubt or when symptoms persist seek medical attention. Never give anything by mouth to an unconscious person.

INHALATION - Remove from exposure. Keep warm and at rest. If there is respiratory distress give oxygen & if respiration stops apply artificial respiration.

EYE CONTACT - Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 mins. holding the eyelids apart, seek medical advice. Avoid sunlight or other sources of UV radiation.

SKIN CONTACT - Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners.

INGESTION - Do NOT induce vomiting. Wash out mouth with water and give plenty of water to drink. If possible, prop up patient to facilitate release of gases formed in the stomach.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA - Carbon dioxide, Dry Powder, Halogenated Hydrocarbons, Sand, Foam.

NOT TO BE USED - Water.

SPECIAL INSTRUCTIONS FOR FIRE FIGHTING PERSONNEL - Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Decomposition products may be a hazard to health. May evolve toxic, flammable and asphyxiating gases in a fire. Therefore self contained breathing apparatus and an impervious body suit must be worn. Cool closed containers exposed to fire with a water spray. Do not allow run off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in sect. 7&8. Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth and place in suitable container for disposal in accordance with the waste regulations. Do not allow large quantities to enter drains or water courses. If it does local water companies should be contacted, in case of contamination of streams rivers or lakes the National Rivers Authority. For large spillage: Wear suitable protective clothing including eye/face protection. Evacuate the area and keep all personnel upwind. Absorb spillage in earth or sand.

7. STORAGE & HANDLING

Avoid skin & eye contact. For personal protection see Sect.8. Good housekeeping and regular removal of waste materials will minimise risks.

Observe the label precautions. Store between 5 & 30°C in a dry well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Container which are opened should be properly resealed and kept upright to prevent leakage. Store away from oxidising agents and strongly alkaline and acid materials. The principles contained in the HSE's guidance note Storage of Packaged Dangerous substances should be observed when storing this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures - Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If extraction methods are insufficient to maintain concentrations of particulates and/or solvent vapours below relevant OEL's, suitable respiratory protective equipment should be worn.

Substance Name	% Conc Range	Symbol	OES 8hr ppm	OES 15min ppm	Risk Phrases	Notation
HALOGENATED ALIPHATIC HYDROCARBON (BOROTHENE)	>80% & = <100%		200.00	250.00		OES

NOTES

Notations = Sk - risk of absorption through skin Sen - respiratory sensitizer.

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OEL's are from EH40 except where marked SUP which are assigned by the supplier of the substance.

General Protection - All ppe, including rpe, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH regulations. Keep away from food, drink and animal feedstuffs.

Respiratory Protection - Air fed respiratory equipment should be worn when sprayed if levels cannot be controlled below OEL's and engineering methods cannot be reasonably improved.

Hand Protection - Full physical protection is best. Seek relevant advice from glove manufacturers. Barrier cream may be of help but should not be applied after exposure has occurred.

Eye Protection - Eye protection designed to protect against liquid splashes should be worn.

Skin Protection - Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap & water or a proprietary skin cleaner. Use neoprene or nitrile gloves, boots and apron.

9. PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE	Clear colourless liquid	VAPOUR DENSITY	HEAVIER than Air
FLASH POINT		LOWER EXPLOSION LIMIT	
VISCOSITY	0.667 Method Brookfield Viscometer	SOLUBILITY IN WATER	IMMISCIBLE
SPECIFIC GRAVITY	1.745 gms/cc Method Hydrometer		

10. STABILITY & REACTIVITY

Stable, but product acid acceptance test should be carried out frequently to ensure stability of product. In a fire, hazardous decomposition products such as hydrogen chloride, chlorine and phosgene may be produced. Slow hydrolysis with moisture forms hydrochloric acid. Decomposition will normally only occur if involved in a fire. Product is compatible with all metals except Calcium. Finely powdered Aluminium should be avoided.

11. TOXICOLOGICAL INFORMATION

Harmful by inhalation. Inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Mildly irritating to skin and eyes. May cause systemic effects. May cause irregular pulse. Has central nervous system effects. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

12. ECOLOGICAL INFORMATION

Sinks in water. Large volumes may penetrate soil and contaminate groundwater. Large quantities of the product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product. Not readily biodegradable and will bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution & Environmental Protection Acts. In UK, surplus/used product should be declared a special waste. Refer to the Control of Pollution (Special Waste) Regulations 1980 - SI 1709

14. TRANSPORT INFORMATION

Road/Rail	SI Number.....1887	Packing Group...III	Class.....6.1
Sea	Packing Grp. <= 30lts....III	Packing Grp. > 30lts....III	Class.....6.1
	Ems.....6.1-02	UN Number.....1887	
	Main Risk.....HARMFUL	MFAG.....345	
	Shipping Name.....BROMOCHLOROMETHANE		
Air	Packing Grp. <= 30lts....III	Packing Grp. > 30lts....III	Class.....6.1
	UN Number.....1887		
	Main Risk.....HARMFUL		
	Shipping Name.....BROMOCHLOROMETHANE		
International Road/Rail	Packing Group.....III		Class.....6.1
	Item Number.....15(c)		UN Number.....1887
	Main Risk.....HARMFUL	TREMCARD 61G61c	ADR/RID No. 60
	Shipping Name.....BROMOCHLOROMETHANE		

15. REGULATORY INFORMATION

The product is classified and labelled for supply in accordance with the Chemicals (Hazard Information & Packaging) Regulations as follows.

Classification	Xn - Harmful
Contains	HALOGENATED ALIPHATIC HYDROCARBON (BOROTHENE)
Risk Phrases	20 Harmful by inhalation
Safety Phrases	24/25 Avoid contact with skin and eyes.
	23 Do not breathe gas/fumes/vapour/spray
	26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	20/21 When using do not eat, drink or smoke
'P' Phrases	Do not breathe Vapour or Spray

The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risks as required by other health & safety legislation. The provisions of the Health & Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

16. OTHER INFORMATION

Date of Origination 13/06/97
Date of last revision 17/02/00

The information contained in this safety data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information & Packaging) Regulations. The product should not be used for purposes other than those shown in sect. 1 without first referring to the supplier and obtaining written instructions. As the specific conditions of use of the product are outside of the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Further information and relevant advice can be found in:-
The Control Of Substances Hazardous to Health Regulations 1988 (SI 1988: 1657)
The Manual Handling Operations Regulations 1992 (SI 1992: 2793)
Storage of Flammable Liquids in Containers. HS(G)51
Storage of Packaged Dangerous Substances. HS(G)71
The Environmental Protection (Duty of Care) Regulations 1992 (SI 1988: 2839)