

MATERIAL SAFETY DATA SHEET

Description: ST3 Revision Number: 00

Document Number: MSDS ST3

Company Details

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1. Product Identification

Trade Name	ST3	Product code: ST3
Chemical Family	Chlorinated compounds	
Chemical Name	Formulated chemical	
Product Use	Electrical Motor Cleaner	
UN Number	1897	

2. Composition

CAS No.	Hazardous Components	Approx. %	OSHA PEL
127-18-4	Tetrachloroethylene	<95	TWA 50 ppm
EEC classification	Harmful (Xn), ST		
R Phrases	R20/21/22, R40-51/53, ST3		

3. Hazards Identification

Main hazard	Harmful (Xn)
Inhalation	Headache. Dizziness. Nausea, avoid unnecessary inhalation, work in a well ventilated area. Suitable masks must be worn when handling product. Harmful on inhalation
Skin contact	Harmful on skin contact, can be absorbed through skin, can cause redness and can result to CNS depression.
Eye contact	Irritation. Watering of eyes, Face protection unit should be utilised at all times.
Ingestion	Injury due to absorption. Treat for the ingestion of chlorinated solvents.

4. First Aid Measures

Inhalation	Move patient to fresh air, allow some water or milk, and if symptoms persist seek medical attention.
Skin contact	Remove chemical from contact with the victim's skin as soon as possible, by washing the area well with soap & running water. Apply cream.

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Ingestion	Empty the stomach to prevent further injury caused by absorption. Seek medical attention . Treat for the ingestion of chlorinated solvents.
Eye Contact	Flush eyes with water for at least 15 minutes. Irrigate eyes thoroughly while lifting eyelids and rolling eyeballs. If irritation persists, seek medical attention.

5. Fire Fighting Measures

Extinguishing media	Product is non-flammable but combustible. Use extinguishing agents suitable for surrounding fire.
Special hazard	Toxic corrosive fumes of hydrogen chloride and highly toxic (phosgene) will be liberated when burning.
Protective clothing	Approved self contained breathing apparatus (NIOSH approved) should be utilised or equivalent and full protective equipment should be worn.

6. Accidental Release Measures

Personal precaution	The product is harmful on inhalation, skin contact and fatal on ingestion. Contains confirmed carcinogenic materials.
Environmental precaution	This product is highly toxic to aquatic organisms and its marine pollutant.
Small spills	Remove excess with absorbent material, and allow vapours to evaporate (preferably outside). Ventilate the area until traces have evaporated. Rinse area with a detergent solution.
Large spills	Dyke ahead of liquid spill. Prevent the discharge of product into sewerage, and water courses. Ventilate area well. Dispose using a hazardous waste disposal company.

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7. Handling & Storage

Handling	Normal handling procedure for chlorinated solvent based product to minimise personal exposure.
Storage	Store in a cool dry area away from any source of heat. Keep containers sealed.

8. Exposure Controls/Personal Protection

Workers should have access to an eye wash fountain.

Respiratory protection – if exposure limit is exceeded, use a self-contained breathing apparatus. (EN filter Type A)

Protective Gloves – Use NITRILE GLOVES (Recommended: Ultranitril 492 – supplier – MSA)

Safety shoes and overalls are recommended when handling ST3

9. Physical and Chemical Properties

Appearance	Clear colourless liquid
pH	1.6 g/cm ³

10. Stability and Reactivity

Stability	Stable under normal conditions, keep away from excessive heat.
Incompatible	Keep away from strong acids, strong oxidizers, strong alkali and finely divided metals.
Hazardous decomposition products	Toxic corrosive fumes of hydrogen chloride and highly toxic phosgene will be liberated when burning; other carbon oxides will be released.

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11. Toxicological Information

Toxicity	<u>Tetrachloroethylene</u> ; May be a carcinogen with experimental carcinogenic, neoplastigenic, and teratogenic data. Moderately toxic to humans by inhalation with the following effects: local anaesthesia, hallucinations, distorted perceptions, coma and pulmonary changes.
	Acute oral : LD50 = 2629 mg/kg, rat
	Inhalation : LD50 : 34 mg/l, rat
Skin & eye contact	Harmful. <u>Tetrachloroethylene</u> ; Can cause dermatitis, particularly after repeated or prolonged contact with the skin and can be absorbed through skin which results to CNS depression.
Carcinogenicity	Tetrachloroethylene is considered to be an animal carcinogen.
Mutagenicity	Classification criteria not met.
Teratogenicity	Experimental reproductive effects.

12. Ecological Information

Aquatic toxicity – rainbow trout	96 hr bioassay LC50 : 10 – 100 mg/l
Aquatic toxicity – daphnia	LC50 : 3.3 – 18,0 mg/l
Aquatic toxicity – algae	The product can be harmful to aquatic environment, plants and organisms even at small quantities for along period of time.
Mobility	The product may leach to underground water.
Biodegradability	The product is not expected to biodegrade.
Bioaccumulation	There's a possibility of bioaccumulation

13. Disposal Considerations

Disposal methods	Strictly dispose as a per local agreed government method.
Disposal of packaging	Drum recyclers or collectors should be contacted.

14. Transport Information

UN Number	1897
Substance identity no	N002
ADR/RID class	6.1 Harmful liquid (Xn)
IMDG – Packaging group	III
Marine Pollutant	Yes
IMO/IMDG Classification	6.1 Harmful liquid (Xn)
IATA Classification	6.1 Harmful liquid (Xn)

15. Regulatory Information

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EEC-hazard classification	Harmful (Xn)
Risk phrases	R20/21/22, R40-51/53
Safety phrases	S23, S36/37-61

16. Other Information

References: SABS 0265: 1999, SABS 0228: 1995, SABS ISO 11014-1: 1994, M.S.D.S. (Suppliers of raw's)
Issued by: Doug Cutter
EMERGENCY NUMBERS: 011 406 4000 / 082 412 2298

The information in this MSDS is based on current knowledge and experience at the date of publication. This MSDS summarises our best knowledge of the health and safety hazard information of the product and is intended only as a guide to the appropriate precautionary handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification of the product. The data relates only to the specific product designated, and does not relate to use of the product in combination with any other material or use of the product in any process. The data is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability for fitness for a particular purpose is made with respect to the product, its composition, its safety or the information contained in this MSDS sheet.

APPENDIX A

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
30/07/2018	Doug Cutter	MSDS ST3	ST3	00

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