

MATERIAL SAFETY DATA SHEET

Description: ST4

Revision Number: 00

Document Number: MSDS ST4

Company Details

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1. Product Identification

Trade Name	ST4	Product code: ST4
Chemical Family	Hydrocarbons	
Chemical Name	Formulated chemical	
Product Use	Petroleum based cleaner	
UN Number	3082	

2. Composition

CAS No.	Hazardous Components	Approximate %	NIOSH REL
64742-47-8	Aliphatic hydrocarbon (odourless)	> 98	TWA 100 mg/m ³
EEC - classification	Flammable (F), ST4		
Risk phrases	R10 R36/37/38 R51, ST4		

3. Hazards Identification

Main Hazard	Flammable liquid
Fire	Flammable
Skin contact	Prolonged contact results to defatting of skin. Avoid prolonged skin contact.
Inhalation	Avoid unnecessary inhalation, may lead to drowsiness. Work in a well ventilated area.
Eye contact	Irritant, burning.
Ingestion	Possible serious damage to lungs.

4. First Aid Measures

Inhalation	Move patient to fresh air and allow some water.
Skin contact	Wash area well with soap and water.
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.
Ingestion	Do not induce vomiting – seek medical attention

5. Fire Fighting Measures

Extinguishing media	Extinguish with carbon dioxide (CO ₂), dry powder and foam. Suitable respiratory unit should be utilised.
Special hazards	Toxic fumes will be liberated when burning.
Protective clothing	Self contained breathing apparatus (NIOSH approved) or equivalent should be utilised.

Prepared by: Doug Cutter
Reviewed by: Zanele Selala
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6. Accidental Release Measures

Land	Prevent from entering drains and watercourses, absorb with suitable absorbent and dispose in accordance with local regulations
Water	Confine spill by using absorbent booms, remove by skimming or with suitable absorbent

7. Handling & Storage

Handling	Normal handling procedure for solvent based products to minimise personal exposure. Do not smoke or use near sparks or elevated temperatures.
Storage	Store in a cool dry area. Keep containers sealed. Good normal warehouse practices

8. Exposure Controls/Personal Protection

Workers should have access to an eye wash fountain.
If specific application may result to splashing, safety goggles (VNC 11 – supplier – MSA) should be utilised.
Nitrile gloves should be utilised when handling the product.
Work in a well-ventilated area or 6300 type mask/6059 cartridge (3M – supplier) should be utilised where ventilation isn't adequate.

9. Physical and Chemical Properties

Appearance	Clear liquid
Odour	Mild
Density	0.75 – 0.80 g/cm ³
Flash Point	67 °C
Auto-ign temp	>220 °C
Initial BP	192 °C
Solubility (water)	<0.2%

10. Stability and Reactivity

Stability	Stable under normal conditions. Keep away from heat, sparks or elevated temperatures.
Incompatible materials	Strong oxidising agents
Hazardous decomposition products	Carbon monoxide & dioxide will be liberated on decomposition.

11. Toxicological Information (based on hydrocarbon)

Toxicity	Acute oral: LD50 > 2000 mg/kg (Low toxicity)
	Acute dermal: LD > 2000 mg/kg (Low toxicity)
Carcinogenicity	No evidence of carcinogenic effects.
Mutagenicity	Not expected to be mutagenic.

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Teratogenicity	No evidence of teratogenic effects.
Reproductive hazard	Not expected to impair fertility.

12. Ecological Information (based on hydrocarbon)

Acute toxicity - fish	LC/EC/IC 50 > 1000 mg/l (Practically non toxic)
Acute toxicity - daphnia	LC/EC/IC 50 > 1000 mg/l (Practically non toxic)
Acute toxicity – algae	LC/EC/IC 50 > 1000 mg/l (Practically non toxic)
Mobility	Adsorbs to soil and has a low mobility, floats in water
Biodegradability	Readily biodegradable. Complete in 28 days.
Bio accumulation	Not expected when used as recommended.

13. Disposal Considerations

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be stringent than regional or national requirements and must be complied with.	
Disposal of packaging	Do not puncture, vent in a safe place away from sparks and fire. Send container to drum recovers or recyclers.

14. Transport Information

UN Number	UN 3082
Substance identity no.	ST4
Marine Pollutant	Yes
ADR/RID class	Environmentally hazardous substance
IMDG – packaging group	III
IATA class	Environmentally hazardous substance

15. Regulatory Information

EEC – hazard classification	Flammable
Risk phrases	R10 R36/37/38 R51
Safety phrases	S7 S23/24/25 S38 S56 S62

16. Other Information

References: SABS 0265: 1999, SABS 0228:1995, SABS ISO 11014-1: 1994, M.S.D.S. (Suppliers of raw's)
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