

TRADE GRADE PRODUCTS LTD

MATERIAL SAFETY DATA SHEET

1. Identification of the substance / preparation and company.

Product name	Tradeweld STD Hardener
Supplier	Trade Grade Products Limited
Address	2 Thorne Way Woolsbridge Industrial Park Three Legged Cross Wimborne Dorset BH21 6FB
Emergency telephone number	01202 820177

2. Composition / Information on Ingredients.

Based on a tri-functional Mercaptan and tertiary amine.

<u>Material description</u>	<u>CAS No.</u>	<u>Index No.</u>	<u>% Content</u>	<u>Health (class)</u>	<u>Risk (R No.)</u>
4-nonyl-phenol	25154-52-3	404-160-6	>70 and <82	C, N	R22 R34 R50/53
2-piperazin-1-ylethylamine	140-31-8	205-411-0	>20 and <28	C	R21/22 R34 R43 R52/53

3. Hazards Identification.

Skin contact	Harmful in contact with skin. Causes burns. May cause sensitisation by skin contact.
Eye contact	Irritating to eyes.
Ingestion	Harmful if swallowed.
Environmental	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First Aid Measures.

Inhalation	If vapour has been inhaled in high concentrations move the affected person to fresh air, keep them warm and allow to rest. If there is difficulty breathing medical attention should be sought immediately.
Skin	Remove contaminated clothing immediately. Rinse affected skin with plenty of soap and water, using a mild cleaning agent, do not use solvents. If irritation persists obtain medical attention.
Eye	Immediately flush eyes with running water for at least 15 minutes without interruption. Obtain medical attention. If irritation persists obtain medical attention.
Ingestion	DO NOT INDUCE VOMITING. If patient vomits turn to recovery position. Drink plenty of water. Obtain medical attention. Never make an unconscious person drink fluids.

5. Fire-fighting Measures.

Extinguishing media	Foam / Water fog / Dry powder / CO ² . Do not use a water jet.
Explosion hazard	Burning produces noxious and toxic fumes including carbon and nitrogen oxides.
Personal protection	Wear self-contained breathing apparatus and a protective suit.

6. Accidental Release Measures.

Personal protection	Keep away from sources of ignition – NO SMOKING. Avoid contact with skin, eyes and clothing. Do not breathe vapour / dust.
Environmental precautions	Inform police and local authority if product enters drains, sewers or waterways. Do not contaminate surface water. Avoid subsoil penetration.
Clean up of spillages	Spillages should be contained by and covered with sand, sawdust or other inert material. The mixture can then be placed into suitable containers and the spill area cleaned with detergent and water. Dispose of as hazardous waste in accordance with local regulations.

7. Handling and Storage.

Handling	Irritant. Sensitising. Keep away from sources of ignition – NO SMOKING. Avoid formation of aerosol. When handling do not eat or drink. Do not breathe vapour. Avoid contact with skin and eyes. Use only in well ventilated areas. Provide adequate air exchange / exhaust in the work room. Handle and open container with care.
Storage	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Store at room temperature in the original container. Store between 2°C and 40°C.

8. Exposure Controls / Personal Protection.

Respiratory protection	None required providing suitable ventilation. If local exhaust ventilation is inadequate a respirator fitted with an organic vapour cartridge should be worn.
Hand protection	Wear plastic or rubber gloves.
Eye protection	Wear chemical goggles.
Skin protection	Overalls and enclosed footwear. Wash hands before work breaks and after work.

9. Physical and Chemical Properties.

Appearance	Liquid
Odour	Typical amine odour
Flash point	140°C approx. (method DIN 51758 (Pensky-Martens closed cup))
Relative density	0.97 g/cm ³ (method DIN 51757)
Viscosity	Dynamic 4000 - 7000 mPa.s @ 25°C

10. Stability and Reactivity.

Conditions to avoid	Static and electrical discharge.
Materials to avoid	Strong acid, strong bases and strong oxidising agents.
Hazardous decomposition products	May release oxides of carbon nitrogen and other toxic fumes.

11. Toxicological Information.

LD50 Oral	1900 mg/Kg (rats)
Eye irritation	Corrosive (rabbit)
Skin irritation	Corrosive (rabbit)
Sensitisation	Causes sensitisation (guinea pig)

12. Ecological Information.

Avoid subsoil penetration.

Do not allow product to enter drains, sewers or waterways.

Do not contaminate surface water.

13. Disposal Consideration.

Must be incinerated in compliance with local regulations. Waste key number 55903.

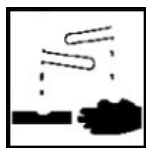
Disposal should be in accordance with the Environmental Protection (Duty of Care) Regulations 1991.

14. Transport Information.

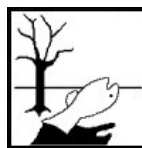
<u>Road transport</u>	ADR / RID
Class	8
Number / Letter	53B
Hazard Number	80
UN Number	2735
Packing group	II
Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S.
Additional information	AMINOETHYLPIPERAZINE and 4-NONYL-PHENOL
<u>Marine transport</u>	IMDG
Class	8
UN Number	2735
Packing group	II
EmS Number	8-05
MFAG	320
Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S.
Additional information	AMINOETHYLPIPERAZINE and 4-NONYL-PHENOL
<u>Air transport</u>	IATA / DGR
Class	8
UN ID Number	2735
Packing group	II
MFAG	(812)
Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S.
Additional information	AMINOETHYLPIPERAZINE and 4-NONYL-PHENOL

15. Regulatory Information.

CHIP Label for supply



CORROSIVE



DANGEROUS TO
THE ENVIRONMENT

