



SAFETY DATA SHEET

FORCE™ PENETRANT

SECTION 1: Identification of the substance and supplier

Product name: Force Penetrant
Recommended Use: Agricultural / horticultural surfactant / penetrant

Company: Grosafe Chemicals Ltd.
Address: 20 Jean Batten Drive, Mt Maunganui 3116 (P.O. Box 14450 Tauranga 3143)
Email: enquiries@Grosafechemicals.co.nz
Telephone Toll Free Number: 0800 820 002
Emergency Telephone Number: 0800 CHEMCALL (0800 243622)
(EMERGENCIES ONLY)

Date of Issue: April 2016

SECTION 2: Hazards Identification

HSNO Hazard Classification: 6.1D : may be harmful if swallowed or absorbed through the skin, 6.3 A, : irritating to the skin, 6.4A: irritating to the eyes, 9.1 B, toxic to aquatic organisms.

SECTION 3: Composition/information on ingredients

Chemical Entity	CAS No.	Proportion
Polyether modified polysiloxane	134180-76-	75 %

SECTION 4: First Aid Measures

Skin contact: Wash with soap and water. Wash contaminated clothing before reuse.

Eye contact: Flush eyes with clean water for 15 minutes or more. If irritation persists consult a doctor

Ingestion: If swallowed, seek medical attention.

Inhalation: Remove person to fresh air. If not breathing, give CPR. Seek medical attention.

Advice to doctor : No specific requirements, treat symptomatically.

Consult The National Poisons Information Centre, 0800 POSITION (0800 764 766), or a Doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur seek medical attention immediately.

SECTION 5: Fire Fighting Measures

Flash point:	Non flammable
Products in case of fire:	In event of fire the following can be released: Carbon monoxide, carbon dioxide, silicon dioxide
Hazardous Decomposition Products:	None with proper storage and handling
Special Fire Fighting procedures:	Evacuate personnel to a safe area. Wear breathing apparatus and full protective clothing. Do not allow water from fire-fighting to enter water supplies, or drainage systems
Extinguishing Media:	Water fog, foam, CO ₂ , or dry chemical extinguishers.
HAZCHEM Code:	2[Z]

SECTION 6: Accidental Release Measures

Wear appropriate protective equipment (see Section 8). Clear the area of all unprotected personnel. Prevent entry of chemical or used/damaged containers into sewers, drains, streams or waterways. If necessary, inform the police and the Regional Council. For the purposes of complying with Hazardous Substances (Disposal) Regulations (2001) this SDS must be made available within 10 minutes to any person using the product.

Small Spill: Use personal protective equipment. Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. Take up with absorbent material.

Large Spill: Wear protective clothing and equipment (see Section 8). Stop further release of spilled material. Take up with absorbent material and place in secure containers for disposal. Do not discharge into the subsoil/soil. If further information is required, telephone Grosafe Chemicals Ltd. at 0800 820 002.

SECTION 7: Handling and Storage

Handling

Avoid contact with eyes and skin. Keep away from food, drink and animal feedstuffs. After work, remove protective clothing, and wash hands before eating, smoking, drinking or using the toilet. Clean up spilled material immediately, and wash clothes, equipment and work area after use.

Storage

Keep out of reach of children and animals. Store in tightly closed original containers in a cool, dry, well-ventilated area out of direct sunlight. Do not store with food, feedstuffs, fertilisers and seeds.

This substance is subject to a requirement for an emergency management response plan, secondary containment and signage, whenever it is held in quantities of 100 kg or more, either alone or in aggregate with other hazardous substances. See Hazardous Substances (Emergency Management) Regulations 25 to 42.

SECTION 8: Exposure Control/Personal Protection

ENGINEERING CONTROLS

When mixing or handling wear a face mask or goggles, rubber gloves and overalls. Avoid inhalation of spray mist.

SECTION 9: Physical and Chemical Properties

Appearance:	Light yellow liquid
Odour	Characteristic
Density:	ca. 1.02
Solubility in water:	Soluble
pH:	ca. 8
Melting temperature:	Not measured
Boiling temperature:	Not measured
Vapour pressure:	Not measured

See also Section 5 and 10

SECTION 10: Stability and Reactivity

Chemical Stability:	Stable under normal storage conditions
Materials to avoid:	None especially.
Hazardous Decomposition Products:	If product is involved in a fire, carbon dioxide, carbon monoxide, may be formed.
Hazardous polymerisation:	Not known to occur

SECTION 11: Toxicological Information

Health effects:	See symptoms of Exposure in Section 4
Acute	
Eye	Irritation (rabbit): Strongly irritant. Risk of serious damage to eyes.
Skin	Irritation (rabbit) Slightly irritant.
Inhaled	May irritate throat.
Swallowed	Seek medical attention.
Toxicity Data	Acute Oral LD ₅₀ (rat): > 3,200 mg/kg Acute Dermal LD ₅₀ (rabbit): > 2,000 mg/kg Inhalation LC ₅₀ (rat): > 1.08 mg / L air Skin irritation Species: (rabbit) slightly irritant
Chronic effects:	Not considered to be a carcinogen, mutagen, teratogen or reproductive toxicant

SECTION 12: Environmental Information

ECOTOXICITY

Toxicity to fish: LC50 Species: Rainbow trout Dose: 2.1mg/L
Toxicity to daphniae: EC50 Species: Daphnia magna Dose: 1.1mg/L (48 hr.)
Toxicity to algae: EC50: Species: Scenedesmus subspicatus Dose: 28.2mg/L
EC50: Species: Scenedesmus subspicatus Dose: 152.2mg/L

Avoid unintentional discharge into the environment. The ecotoxicological data refer to the undiluted 100% product.

SECTION 13: Disposal Considerations

DISPOSAL

Contaminated material must be disposed of in accordance with all local authority requirements.
Dispose or empty containers and unused spray mix according to label directions.
Dispose of unwanted product by using according to label directions or at an approved landfill.
DO NOT Contaminate any body of water by spraying, cleaning of equipment or disposal of product or container.

SECTION 14: Transport Information

UN No.:	3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID (polyether siloxane)
Dangerous Goods Class:	9
Packing group:	III
Marine Pollutant:	yes

Do not carry more than 3 kg. on a passenger service vehicle.
Transport according to the requirements of the Land Transport Rule 45001: Dangerous Goods 1999, the Maritime Rule 24A Carriage of Cargoes-Dangerous Goods and Civil Aviation Rule 92: Carriage of Dangerous Goods is deemed to comply with certain requirements of the Hazardous Substances (Identification) and (Emergency Management) Regulations (2001).

SECTION 15: Regulatory Information

Approved pursuant to HSNO Act 1996, Approval code: HSR 002503
See www.epa.govt.nz for approval conditions

SECTION 16: Other Information

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. No warranty, express or implied is made since we cannot anticipate or control the conditions under which the product may be used.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Grosafe Chemicals Ltd.