

DISFLO-Pt (Platinum)

Material Safety Data Sheet

According to SANS10234 / 11014:2009/10

1. IDENTIFICATION OF SUBSTANCE/PRODUCT AND THE COMPANY

Product Trade name: DISFLO-Pt (Platinum) REAGENT

Supplier: Lubritech (Pty) Ltd
11 Ibis Lane Fourways

Emergency information: Arno Lamprecht. Phone: 0861 000 487 / 082 494 2819

Chemical abstract no: Not Available

Chemical family: Water based Emulsion

Chemical name: Emulsion

Synonyms: Water based Emulsion

NIOSH no: Not Available

Hazchem code: Not Available

UN no: Not Available

2. SOURCE AND COMPOSITION/DATA ON CONTENTS

Hazardous components:

Ingredient	CAS no.	R Phrase	EEC
Sodium Silicate (20-30%)	1344-09-08	None	
Silane Siloxane Emulsion	Proprietary	R22	Xi
Detergent	Proprietary	R22	Xi

Chemical characterization description:

Aqueous silicates in solution and additives

Additional information: For information about ingredients with occupational exposure limits – see section 8

3. HAZARDS IDENTIFICATION

Main hazard:	Possible skin and eye irritant
Flammability:	None
Chemical hazard:	None
Biological hazard:	None
Reproductive hazard:	None
Health effects – eyes:	Reddening, irritation
Health effects – skin:	Skin reddening, irritation
Health effects – ingestion:	Stomach ache, nausea and vomiting
Health effects – inhalation:	None
Carcinogenicity:	None
Mutagenicity:	None
Neurotoxicity:	None

(This product is not classified – no symbol according to EC directives)

See also section 11

Fire:	Not applicable
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4. FIRST AID MEASURES

Inhalation:

Not applicable. If in doubt, remove to fresh air. In the unlikely event any symptoms persist seek medical attention.

Skin contact:


Remove contaminated clothing and wash skin thoroughly with soap and water, Seek medical advice if rash develops

Eye contact:


Flush **immediately** with a plenty of water for at least 10 minutes. (Remove contact lenses) If irritation persists seek medical attention.

Ingestion:


Drink plenty of water or milk and seek medical advice immediately. Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

Burning:

Not applicable.

5. FIRE FIGHTING MEASURES

Suitable extinguishing agents:

Not applicable

For safety reasons unsuitable extinguishing agents:

Not applicable

Special hazards caused by the material, its products of combustion of resulting gasses:

Not applicable

Special equipment: extinguishing media:

Suitable for surrounding materials

Special hazards: None

Protective clothing: Suitable for surrounding materials

6. ACCIDENTAL RELEASE MEASURES

Person related safety precautions: Use alkali resistant gloves in cases of spillage.

Measures for environmental protection: Not applicable. The product is developed for treatment of soil contamination with various kinds of organic or inorganic pollutants. Do not allow spillage (from larger quantities – eg store) to enter drains or water sources.

Measures for cleaning/collecting: Sand and other porous materials can remove accidental spillage in larger quantities. Can be stored in a container. See also section 13

Personal precautions: Wear protective clothing as indicated in section 8

Environmental precautions: Do not discharge to natural water systems

Small spills: Collect in a container for disposal and wash areas with clean water

Large spills: Collect in containers for disposal. Rinse affected areas with clean water to effluent.

Avoid applying to glass.

7. HANDLING AND STORAGE

Suitable material: Keep in original containers

Handling / storage precautions: Keep containers closed and in a dry place. Product is normally shipped in 25 litre and 210 litre plastic drums. Product may be stored in aluminum, steel, concrete, or plastic containers. Store in cool areas with original caps in place to prevent evaporation.

Avoid skin and eye contact. Eating and drinking should be prohibited in workplaces.

Avoid applying to glass.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational exposure limits: None

Personal protection – respiratory: None

Personal protection – hand: Rubber gloves

Personal protection – eye: Not expected to be necessary

Additional information about design of technical systems: No special measures required; see section 7

Engineering control measures: Local exhaust systems, natural air flow

Components with limit values that require monitoring at the workplace:

CAS NO	Designation	%	Index	R-phrases
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Not required

Additional information: The general precautionary rules and measures for handling chemicals should be adhered to.

Handling / storage precautions: Keep containers closed and in a dry place.
 Product is normally shipped in 25 litre and 210 litre plastic drums. Product may be stored in aluminum, steel, concrete or plastic containers. Store in cool areas with original caps in place to prevent evaporation.
 Avoid applying to glass

PERSONAL PROTECTIVE EQUIPMENT

Breathing equipment: Not required.

Personal protection – skin: Apron, closed shoes, overalls

Protection of hands: Use safety gloves of alkali resistant materials e.g. rubber (neoprene or nitrile). Ask the manufacturer. Wash your hands at intervals and at end of work.

Eye protection: Use goggles/face protection against splash of materials.

Body protection: Wear suitable protective clothing - alkali resistant, apron, closed shoes, overalls

Other protection: None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid
Form:	Liquid
Odour:	Neutral / Weak
Boiling point:	100 degrees Celsius
Melting point:	None
Flash point:	None
Ignition temp:	Not applicable
Flammability:	None
Auto flammability:	None
Explosive properties:	None
Oxidizing properties:	None
Vapor pressure:	None
Density:	1.0 -1.05 g/m ³
Neurotoxicity:	None
Critical values for explosion:	
Lower:	Not applicable
Upper:	Not applicable
Solubility in water:	100%
In other:	Not applicable
Solvent:	No
Viscosity:	Not determined
pH:	11.3 – 11.7 (Concentrate)

10. STABILITY AND REACTIVITY

Conditions to avoid: Humid, hot conditions

Incompatible materials: Strong organic acids and alkalis

Hazardous decomposition products: None

Normally stable at temperatures above 5 degrees C.

Product may cause a gelling effect to materials that contain acids or ammonia.

Upon drying the crystals formed from this solution become sharp and abrasive.

Hazardous polymerization will not occur.

Note:

Avoid contact with any acid. DISFLO will convert acids into a gel like form at the same time neutralizing them.

Dangerous products of decomposition: Not applicable

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Not known

Skin and eye contact: Acute Oral Toxicity LD50 (rat) 2000-3000 mg/kg

Chronic toxicity: Not known

Carcinogenicity: None

Mutagenicity: None

Neurotoxicity: None

Reproductive hazardous: None

Some irritation. Direct splashes to the eye may cause strong irritation. Possible irritation to the respiratory system, if inhalation occurs. Direct contact may cause skin irritation. May cause strong irritation to mouth and throat, if swallowed.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12. ECOLOGICAL INFORMATION

Aquatic toxicity – fish:	Not known
Aquatic toxicity – daphnia:	48 hour LC 50 for Fathead minnow is 11.1 mgms/L
Aquatic toxicity – algae:	Not known
Biodegradability:	Materials
Mobility:	No
German wgk:	Not Available

DISFLO is totally miscible with water and will progressively be diluted if allowed to enter drains or water courses. The product does not contain substances that are harmful to the environment, fish and wildlife. None of the substances in the product are classified as harmful or dangerous according to all EC rules relating to harmful substances. The product will be mineralized by the carbon dioxide in the air and the soil and transformed into non reversible organo silicates. The product can be used for treatment of soil contaminated with various kinds of organic or inorganic pollutants with no impact on the environment. See also section 6 and 13

13. DISPOSAL CONSIDERATIONS

Product:	Minor spillage of the product can be flushed out with plenty of water. Larger quantities can be removed by sand or other likely porous materials and can be stored in containers. Avoid contact with skin - use safety gloves. Disposal - according to national regulations, if any. Remark: the primary function of the product is cleaning of contaminated hard surfaces and soil
Uncleansed and empty packaging etc:	Disposal (Including remaining product) must be made according to official regulations.

14. TRANSPORT INFORMATION

UN no.:	Not Available
Substance identity no.:	Not Available
ADR/RID class:	Available
ADR/RID item no.:	Not Available
ADR/RID hazard identity no.:	Not Available

IMDG – shipping name:	Not Available
IMDG – class:	Not Available
IMDG – packaging group:	Not Available
IMDG – marine pollutant:	Not Available
IMDG – EMS no.:	Not Available
IMDG – MFAG table no.:	Not Available
IATA – shipping name:	Not Available
IATA – class:	Not Available
IATA – subsidiary risk(s):	Not Available
ADNR – class:	Not Available
UK – description:	Not Available
UK – description:	Not Available
UK – emergency action class:	Not Available
UK – classification:	Not Available
Tremcard no.:	Not Available
ADR/RID class:	Not Available

This product is not regulated as a hazardous material by the U.S. Department of Transportation.

15. REGULATORY INFORMATION

EEC hazard classification:	Xi
Risk phrases:	R22
Safety phrases:	S7
National legislation:	None

16. OTHER INFORMATION

The information of this MSDS (COSHH) is based on the present state of our knowledge and on current EEC and national laws.

The user's working conditions are beyond our knowledge and control. It is always the responsibility of the user to take all necessary steps in order to fulfil the demands laid down in the rules and legislation.

The information in this MSDS (COSHH) is meant as a description of safety requirements of our product. It is not to be considered as guarantee of the product's properties.

Manufactured under the certification of ISO 9002.
