



SAFETY DATA SHEET

LPS[®] Precision Clean (Concentrate)

Revision Date: 3 June 2011

Supersedes: 18 October 2010

Section 1 – Identity of the Substance/Preparation and Company/Undertaking

Product Name: LPS[®] Precision Clean (Concentrate)

Part Numbers: M27005, M27025, M27205

Product Use: A concentrated, alkaline water-based cleaner designed to remove oil and grimy residues from hard surfaces.

Supplier: Geocel Limited, Western Wood Way, Langage Science Park, Plympton, Plymouth, PL7 5BG United Kingdom

TEL: +44 (0)1752 202060

FAX: +44 (0)1752 334384

In Case of Emergency: +001 703-527-3887

Manufacturer: LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.)
<http://www.lpslabs.com>

Section 2 – Hazards Identification

Human and Environmental Hazards This preparation is considered hazardous according to European Union Directives 67/548/EEC and 1999/45/EC.

Section 3 – Composition / Information on Ingredients

INGREDIENT NAME	EC No.	CASRN	Classification	Weight Percent
Disodium metasilicate	229-912-9	6834-92-0	[C] R34 [Xi] R37	4-6%
Dipropylene glycol monomethyl ether	252-104-2	34590-94-8	[Xi] R36	5-7%

Section 4 – First Aid Measures

Eyes: Liquid contact will cause irritation. Flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention if irritation persists.

Skin: Remove contaminated shoes and clothing. Clean affected area thoroughly with mild soap and water. Do not use ointments. Seek medical attention if irritation persists.

Inhalation: If spray mist is inhaled, remove to fresh air. If breathing is difficult, give oxygen and get medical attention.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention immediately.



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Section 5 – Fire Fighting Measures

Products of Combustion: Carbon monoxide and carbon dioxide.

General Fire Hazards: High heat will cause product to boil, evolving vapor that could cause explosive rupture of closed containers.

Firefighting media: SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use CO₂, water spray, fog or foam. Cool containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosions.

Sensitivity to Impact: None

Sensitivity to Static Discharge: None

Protection Clothing (Fire): Wear protective clothing and equipment suitable for the surrounding fire, including helmet, face mask, and self-contained breathing apparatus.

Section 6 – Accidental Release Measures

Precautions to protect environment: Do not allow entry into drains or watercourses. If this occurs inform the local authorities at once.

Spill Cleanup methods: Use an absorbent material, e.g. sand, to mop up residues. See section 13 'Disposal Considerations'.

Section 7 – Handling and Storage

Usage Precautions: Use appropriate personal protective equipment and avoid direct contact with skin.

Storage Precautions: Keep in original container at ambient temperatures. Do not allow product to freeze. Keep container closed. Keep out of the reach of children.

Section 8 – Exposure Controls / Personal Protection

Component	EC No.	UK LT EXP (8 hrs.)	UK ST EXP (15 min.)	Other
Disodium metasilicate	229-912-9	Not Established	Not Established	Not Established
Dipropylene glycol monomethyl ether	252-104-2	50 ppm (Skin)	Not Established	100 ppm ACGIH-TLV 150 ppm ACGIH-STEL

Engineering measures: Normal room ventilation is usually adequate. If necessary, use appropriate local exhaust ventilation to keep exposures below the regulated limits.

Personal protective equipment

Eye protection: Safety glasses with side shields conforming to appropriate regulations. Eye wash fountain and emergency shower facilities are recommended.

Hand protection: Use protective gloves conforming to appropriate regulations. Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves. Take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and the contact time.

Respiratory protection: Typical use of this product under normal conditions does not require the use of respiratory protection.



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Hygiene measures: Do not soak clothing with this product and continue working without immediately changing clothes and washing skin. Do not reuse clothing until it has been laundered. An eyewash fountain should be available in the work area.

Environmental exposure controls: Soak up puddles of product with absorbent material and dispose of according to local regulations.

Section 9 – Physical and Chemical Properties

Appearance:	Liquid	Colour:	Turquoise
Odour:	Citrus	Evaporation Rate:	1 (H ₂ O=1)
Solubility Description:	100% in water.	Flash Point:	None
Boiling Point:	100°C (212°F) @ 101 kPa	Flash Point Method:	Tag-Closed Cup
Specific Gravity (H₂O=1):	1.05–1.09 @ 20 °C	Decomposition Temperature:	Not Established
Vapor Density (air = 1):	>1	Auto ignition temperature:	None
Vapor Pressure:	~3 kPa @ (25 °C)	Flammable limits (estimated):	LOWER: None UPPER: None
Melting Point:	Not Established	Partition Coefficient (octanol/water):	>1
pH:	13.0	Odor Threshold:	Not Established
Heat of combustion:	Not Established	Viscosity:	<3 cSt @ 25°C
Volatiles:	86 - 88%		

Section 10 – Chemical Stability and Reactivity

Chemical Stability:	Product is stable under recommended storage conditions.
Conditions to Avoid:	Temperatures below 0°C.
Incompatibility:	Reactive or incompatible with finely divided metals (such as magnesium “dust”).
Hazardous Decomposition:	Will not occur.
Hazardous Polymerization:	Will not occur.



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Section 11 – Toxicological Information

Acute and Chronic Toxicity

A: General Product Information

An acute toxicity study of this product has not been conducted. Information given in this section relates only to individual constituents contained in this preparation.

B: Component Analysis

Ingredients	EC No.	LC-50	LD-50
Disodium metasilicate	229-912-9	Not established	1153 mg/kg / oral / rat 770 mg/kg / oral / mouse
Dipropylene glycol monomethyl ether	252-104-2	Not established	5400 µL/kg / oral / rat 10 mL/kg / dermal / rabbit

*Supplier Data

Section 12 – Ecological Information

Mobility: Low volatility. Will absorb into soil. **Persistence and degradability:** Expected to biodegrade

Bioaccumulative potential: No bioaccumulation potential **Other adverse effects:** None known

Component Information

Acute Aquatic Toxicity

Effect on Organisms	Component	EC No.	Test	Species	Results
Acute Toxicity on Fishes	Disodium metasilicate	229-912-9	96-hour EC ₅₀	Brachydanio rerio	3185 mg of 35% solution per litre at pH 10.1
	Dipropylene glycol monomethyl ether	252-104-2	96-hour EC ₅₀	Pimephales promelas	>10,000 mg/L
Acute Toxicity on Daphnia	Dipropylene glycol monomethyl ether	252-104-2	48-hour EC ₅₀	Daphnia magna	1919 mg/L
	Disodium metasilicate	229-912-9	48-hour EC ₅₀	Daphnia magna	4857 mg of 35% solution per litre
Bacterial Inhibition	No Data Available				
Growth inhibition of algae					
Bioaccumulation in fish					



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Section 13 – Disposal Considerations

Disposal: Waste must be disposed of in accordance with national and local environmental control regulations.

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate.

Section 14 – Transportation Information

This product is not classified for the purposes of transportation.

The preceding information is subject to change and must be verified prior to shipment. It is the responsibility of anyone offering hazardous materials for shipment to ensure compliance with all applicable regulations.

Section 15 – Regulatory Information

Warning Symbol(s):



Risk Phrases:

R-36/38 Irritating to eyes and skin.

Safety Phrases:

S-2 Keep out of the reach of children.
S-24/25. Avoid contact with skin and eyes
S-28 After contact with skin, wash immediately with plenty of water.
S-62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 16 – Other Information

User Notes:

The purpose of the above information is to describe this product only in terms of Health and Safety requirements. The information given therefore, should not be construed as guaranteeing specific properties or specification. Customers should satisfy themselves as to the suitability and completeness of this information for their own particular use, bearing in mind any other Health and Safety legislation or regulations. The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is construed as a warranty or representation. Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is to be assumed.

Information Sources:

ESIS: European Chemical Substances Information
HSE EH40 Occupation Exposure Limits
Suppliers Safety Data Sheets

Full R-Phrases

R 34 Causes burns
R 37 Irritating to respiratory system