

Logipol HDS**1. IDENTIFICATION OF SUBSTANCES / MIXTURE AND OF THE COMPANY / UNDERTAKING****Product Identifiers**

Product Name: **Logipol HDS (Hyper-crystalline Diamond Suspension)**
Alternative names: HDS 1-3µm , HDS 2-4µm
CAS number: -
EC number: -
Product code: 0CON-512; 0CON-513

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Slurry/Industrial abrasive/Lapping compound
Uses advised against: This product is to be used only for the purpose stated above.

Details of the supplier of the safety data sheet

Manufacturer: Logitech Ltd, Erskine Ferry Road, Old Kilpatrick
Glasgow, G60 5EU Scotland, UK

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Emergency telephone number

+44 (0) 1389 875444 (09:00 – 17:00 Monday to Friday)

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

This material is a mixture

OSHA 2012: Oral Toxicity 4 (H302)
Skin irritant 2 (H315)
Eye irritant 2B (H320)
Reproductive Toxicity 2 (H361d)

Label elements**Warning**

Statements H302 – Harmful if swallowed
H315 – Causes mild skin irritation
H320 – Causes eye irritation
H361d – Suspect of damaging the unborn child
H373 – May cause damage to kidneys through repeated exposure

Precautionary Statements:

P202 – Do not handle until all safety precautions have been read and understood.

P260 – Do not breathe mists or vapours.

P264 – Wash hands thoroughly after handling.

P273 – Avoid release to the environment.

P280 – Wear appropriate PPE when handling.

P305/P351/P338 – If in eyes, rinse cautiously with water for several minutes; remove contact lenses, if present and easy to do so; continue rinsing.

P337/P313 – If eye irritation persists, seek medical attention.

P501 – Dispose of contents and container in accordance with local, regional, national and/or international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

This material is a mixture.

Component	CAS No.	EC No.	%
Triethanolamine	102-71-6	203-049-8	<0.5%
Blend containing Ethylene Glycol*	107-21-1	203-473-3	20 – 30%
Polyacrylic Resin*	-	-	<0.5%
Diamond	7782-40-3	231-953-2	< 20%
Water	7732-18-5	231-791-2	50 – 80%

*Specific chemical identity and concentrations of composition are withheld as trade secret. All remaining components are considered to be non-hazardous.

4. FIRST AID MEASURES

Description of first aid measures

General advice

Remove from source of exposure. This product is not chemically reactive. Any health effects from exposure are likely to be due to mechanical action.

Inhalation.

Remove from source of contamination and move to fresh air. Obtain medical advice.

Ingestion

No ingestion hazard expected under normal industrial use. If a large quantity is ingested, seek immediate medical attention. Do not induce vomiting.

Skin contact

Remove contaminated clothing. Immediately wash with soap and water and rinse thoroughly. Seek medical attention if required.

Eye contact

Immediately flush eyes with plenty of water, lifting lower and upper eyelids occasionally, until abrasive material is removed. After initial flushing, remove any contact lenses if worn. Get medical attention if irritation persists.

Most important symptoms and effects, both acute and delayed

This material causes irritation or minor, reversible injury on contact with eyes, skin, mucus membranes, or upper respiratory tract. This category includes materials, which are listed on the MSDS as harmful only if swallowed.

Indication of any immediate medical attention and special treatment needed

None known.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Product is non flammable. Suitable Extinguishing Media: Water, foam, sand, powder, carbon dioxide (CO²). Use water spray to cool surfaces exposed to fire to disperse vapours and to protect personnel attempting to stop any leakage.

Special hazards arising from the substances or mixture

Burning may produce smoke, carbon monoxide, carbon dioxide, and unburned hydrocarbons.

Advice for fire fighters

Wear self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Minimise formation and accumulation of dust. Use personal protective equipment as specified in Section 8 of this SDS. Sweep or gather up material and place in proper container for disposal or recovery.

Environmental precautions

Minimise release to environment. This product is not environmentally harmful but release to the environment must not be considered for disposal.

Methods and material for containment and cleaning up

Prevent material from spreading. Dispose of immediately. Wear appropriate protective equipment.

Reference to any other sections

See section 13 for disposal information.

7. HANDLING AND STORAGE

Precautions for safe handling:

Take precautions to minimise the generation of airborne dust. Provide adequate ventilation. Avoid breathing airborne dust. Minimise skin and eye contact to prevent irritation by mechanical action.

Conditions for safe storage, including any incompatibilities

Store in a tightly closed container in a secure, well-ventilated area. Store under dry and cool conditions, away from sources of ignition and away from incompatible materials (acids and oxidizing agents) and direct sunlight.

Specific end use(s)

Industrial abrasive, abrasive slurry

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Component Name	OSHA PEL	ACGIH TLV
Ethylene Glycol	NA	100 mg/m ₃ (C)
Triethanolamine	NA	5 mg/m ₃
Diamond	5 mg/m ₃ *; 15 mg/m ₃ **	3 mg/m ₃ *; 10 mg/m ₃ **
Polyacrylic acid	NA	0.05 mg/m ₃
* Respirable fraction	** Total Particulate (Nuisance Dust)	C = Ceiling

Other exposure limits may be specified in individual countries. Check national legislation for appropriate exposure limits. Exposure should be controlled to avoid exceeding the specified limits.

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

Exposure controls

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls (wet grinding) to maintain airborne levels below identified exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

If the exposure limit is exceeded or users experience irritation or discomfort then the use of PPE may be necessary.

Eye / face protection

EN approved safety glasses with side shields or (preferred) box goggles.

Skin protection:

Wear appropriate clothing or PPE to prevent repeated or prolonged contact with exposed skin.

Respiratory protection:

If ventilation is not sufficient to control dust exposures below the applicable exposure limits, an appropriate NIOSH approved air-purifying respirator equipped with N100 or P100 filter is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemicals properties**

Appearance:	Opaque liquid of varying colours depending on diamond size
Odour:	Mild
Odour threshold:	information not available
Colour:	Varies with micron size
pH:	information not available
Melting point:	information not available
Boiling point:	information not available
Flash point:	>241 degrees F / 116°C
Evaporation rate	not applicable
Flammability	not applicable
Upper/lower explosive limits	not applicable – non flammable / non explosive
Vapour pressure	information not available
Vapour density	information not available
Density	information not available
Solubility in water:	Soluble in water.
Solubility in other	
Ingredients:	information not available
Partition coefficient	
Octanol/water:	information not available
Auto-ignition temperature	not applicable – non flammable / non explosive
Decomposition temperature	information not available
Viscosity	information not available
Explosion properties:	not applicable – non flammable / non explosive
Oxidising properties:	Not oxidising.

Other information

No additional data available

10. STABILITY AND REACTIVITY**Reactivity**

Not reactive to materials commonly used in the transportation, handling and storage.

Chemical stability

Stable at room temperature.

Possibility of hazardous reactions

No hazardous reactions known.

Conditions to avoid

Incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

None with proper storage and handling.

11. TOXICOLOGICAL INFORMATION

Endpoint	Ethylene Glycol	Triethanolamine	Acrylic Resin
Acute oral toxicity	LD50 - Rat - 4,700 mg/kg	No data available	No data available
Acute inhalation toxicity	No data available	No data available	No data available
Acute dermal toxicity	LD50 - Rabbit - 10,626 mg/kg	No data available	No data available
Skin corrosion / irritation	Skin - Rabbit Result: No skin irritation 4 h	No data available	No data available
Eye damage / irritation	Eyes - Rabbit Result: Mild eye irritation - 24 h	No data available	No data available
Respiratory /skin sensitisation	No data available	No data available	No data available
Germ cell mutagenicity	No data available	No data available	No data available
Aspiration hazard	No data available	No data available	No data available
STOT Single	No data available	No data available	No data available
STOT - Repeated	Oral - may cause damage to organs through prolonged or repeated exposure. - Kidney	No data available	No data available
Reproductive/ Developmental	Laboratory experiments have shown teratogenic effects. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.	No data available	No data available
Carcinogenicity			
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.			
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.			
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.			

12. ECOLOGICAL INFORMATION

Toxicity

Endpoint	Ethylene Glycol	Triethanolamine	Acrylic Resin
Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 18,500 mg/l - 96 h LC50 - Leuciscus idus (Golden orfe) - > 10,000 mg/l - 48 h NOEC - Pimephales promelas (fathead minnow) - 32,000 mg/l - 7 d NOEC - Pimephales promelas (fathead minnow) - 39,140 mg/l - 96 h	No data available	LC50 - Oncorhynchus mykiss (rainbow trout) 5.6 mg/l - 96 h
Toxicity to invertebrates	EC50 - Daphnia magna (Water flea) - 74,000 mg/l - 24 h NOEC - Daphnia (water flea) - 24,000 mg/l - 48 h LC50 - Daphnia magna (Water flea) - 41,000 mg/l - 48 h	EC50 - Daphnia (water flea) - 609.98 mg/l - 48 h	EC50 - Daphnia (water flea) 2-10 mg/l - 48 h
Toxicity to algae and plants	No data available	No data available	EC 50 algae 2-10mg/L 96h

Persistence and biodegradability

No data available

Bioaccumulative potential

No data available

Mobility in Soil

No data available

Results of PBT and vPvB assessment

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Product**

Dispose of waste and residues in accordance with local authority requirements.

Packaging

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION**UN number**

Not Applicable

UN proper shipping name

Not Applicable

Transport hazard class(s)

Not Applicable

Packing group

Not Applicable

Environmental hazards

Not Applicable

Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code

Not Applicable

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture**

State and local regulation may apply.

OSHA HAZARD COMMUNICATION STANDARD: This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA (311/312) REPORTABLE GHS HAZARD CLASSES:

- Acute Toxicity, Oral Category 4
- Eye Irritation Category 2
- Skin Irritation Category 2B
- Toxic to Reproduction Category 2
- Single Target Organ Toxicity – Kidney

SARA 313 Components: Ethylene Glycol

TSCA Status: this product is in compliance with all rules and orders of TSCA

Chemical safety assessment

Not Applicable

16. OTHER INFORMATION

Date of issue: 29/08/2019

The information contained in the Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, storage, transportation and disposal. It is not intended as a warranty or specification. The information relates only to the product specified and may not be suitable for combinations with other materials.