

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 1-3 μ m , HDS 2-4 μ m
CAS number: -
EC number: -
Product code: 0CON-512, 513

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

Identified uses: Slurry Water Soluble.
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

Telephone +44 (0) 1389 875444
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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

Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:

Not classified as hazardous

Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC

Not classified as dangerous

Label elements**Labelling elements according to Regulation (EC) 1272/2008 (EU 'CLP' regulation)**

No labelling required under these regulations

Labelling elements according to CHIP and EU Directives 67/548/EEC or 1999/45/EC

No labelling required under these regulations

Other hazards

None

3. COMPOSITION / INFORMATION ON INGREDIENTS

This material is a mixture.

There are no hazardous substances present at or above threshold limits:

Component	CAS No.	EC No.	%
K-Gel	None	-	-
Ethylene Glycol	107-21-1	203-473-3	-
Propylene Glycol	57-55-6	200-338-0	-
Diamond	7782-40-3	231-953-2	-
<i>Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:</i> Not classified as dangerous			
<i>Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:</i> Not classified as dangerous			

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 to fresh air.

Ingestion

Give plenty of fluids; Seek medical attention immediately.

Skin contact

Wash affected area with soap and water.

Eye contact

Wash out eyes for a minimum of 15 minutes.

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

5. FIRE-FIGHTING MEASURES

Extinguishing media

Product is flammable.

Use extinguishing medium Alcohol Foam, CO2, Dry Chemical, Water Spray

Special hazards arising from the substances or mixture

This material must be preheated before ignition will occur. Flammable liquids in this category will have flash points (the lowest temperature at which ignition will occur) at or above 200°F (NFPA Class IIIB)

Advice for fire fighters

Wear self contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Prevent skin and eye contact. Wash thoroughly after handling.

Environmental precautions

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

Methods and material for containment and cleaning up

Use inert material; 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 at room temperature, plus/minus 10 degrees, with adequate ventilation. Keep containers closed until ready to use. This material is normally stable, even under fire conditions, and will not react with water.

Specific end use(s)

None identified

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits:

The UK Workplace Exposure Limit (WEL) for general (nuisance) dust applies to this material:

Inhalable dust	LTEL	10 mg/m ³ (8 hr TWA)
Respirable dust	LTEL	4 mg/m ³ (8 hr TWA)

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

Adequate ventilation.

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:

Protective gloves should be worn when handling this material. This rating is given to materials which have the potential for skin irritation, or which may be harmful if absorbed through the skin.

Respiratory protection:

wear a EN149 approved respirator fitted with a particle filter (filter type P1, P2 or P3).

The correct selection, fitting, use, storage and maintenance of respiratory protective equipment is important. Follow manufacturer's recommendation or seek expert advice. HSE document HSG 53 provides some guidance

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemicals properties

Appearance:	Liquid
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

None identified

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monoxide and carbon dioxide

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	no data available.
Skin corrosion/irritation	no data available.
Serious eye damage/ eye irritation	no data available.
Respiratory or skin sensitisation	no data available.
Germ cell mutagenicity	no data available.
Carcinogenicity	no evidence of carcinogenicity.
Reproductive toxicity	no data available.
Specific target organ toxicity	
– Single exposure	no data available.
Specific target organ toxicity	
– Repeated exposure	no data available.
Aspiration hazard	no data available

Further information

See RTECS entry for complete information.

12. ECOLOGICAL INFORMATION

Toxicity

Acute toxicity for fish	no data available
Acute toxicity for crustacea	no data available
Acute toxicity for algae	no data available

Persistence and biodegradability

Data not available.

Bioaccumulative potential

Data not available. Not expected to be bioaccumulative.

Mobility in Soil

Data not available.

Results of PBT and vPvB assessment

No components are classified as PBT or vPvB.

Other adverse effects

Data not available

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

Dispose of product as non-hazardous waste in accordance with local, national and international legislation, using an approved registered waste disposal company.
The European Waste Code will depend upon the use of the product and cannot be specified here.

Packaging

Clean or contaminated packaging can be disposed of as general waste: European Waste Code 15 01 xx (xx will depend upon the type of packaging e.g. plastic, cardboard etc. Refer to European Waste Catalogue).

14. TRANSPORT INFORMATION**UN number**

Not a dangerous good

UN proper shipping name

Not a dangerous good

Transport hazard class(s)

Not a dangerous good

Packing group

Not a dangerous good

Environmental hazards

Not a dangerous good

Special precautions for user

None identified

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

No information available.

Shipping Procedures

Observe all plant, company, and government regulations.

15. REGULATORY INFORMATION

This Safety Data Sheet has been prepared in accordance with the requirements of regulation (EC) No 1907/2006 as amended by regulation (EU) No 453/2010.

Workplace exposure Limits given in section 8 have been taken from the UK HSE document: EH40/2005 Workplace exposure limits as amended.

Relevant regulations:

Regulation (EC) 1272/2008 (EU 'CLP' regulation)

Regulation (EC) 790/2009 First Adaptation to Technical Progress (ATP) for CLP regulation

Regulation (EC) 286/2011 Second Adaptation to Technical Progress (ATP) for CLP regulation

EU Directive 67/548/EEC ('Dangerous Substances Directive')

Regulation (EC) No 1907/2006 ('REACH')
Regulation (EU) No 453/2010.

Safety, health and environmental regulations/legislation specific for the substance or mixture
None identified

Chemical safety assessment

A Chemical Safety Assessment has not been undertaken for this product.

16. OTHER INFORMATION

HMIS® Hazard Ratings: Health - 1, Flammability - 1, Chemical Reactivity – 0, Protective equipment - B

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

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.