

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER: METPREP LTD.
CURRIERS CLOSE
CHARTER AVENUE
COVENTRY CV4 8AW

TELEPHONE: PRODUCT INFORMATION: 024 7642 1222

FAX: 024 7642 1192

CHEMICAL NAME: Colloidal Silica

PRODUCT: SILCO POLISHING SUSPENSION

PRODUCT NUMBERS: 15 99 97 – 15 99 99

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NATURE: Colloidal Silica

INGREDIENT (S):	CAS NUMBER:	%:	HAZARD SYMBOL:	R PHRASES:
Amorphous Silica	7631-86-9	15-50		
Formaldehyde	50-00-0	<1.0	T,	R23/24/25,34,40,43
Ethylene Glycol	107-21-1	4-5	Xn,	R22

3. HAZARDS IDENTIFICATION

May cause irritation of skin and eyes

4. FIRST AID MEASURES

GENERAL INFORMATION: Remove contaminated or saturated clothing immediately.

INHALATION: Remove to fresh air. In case of irritation to respiratory system, seek medical attention.

SKIN: When contact with skin, rinse with soap and water.

EYE: Irrigate with eyewash solution or clear water, holding the eyelids apart, for at least 5 minutes. Obtain immediate medical attention.

INGESTION: Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink.

Obtain medical attention. Never give anything by mouth to an unconscious person. Call a doctor.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry Sand, foam, dry powder or CO₂. Water.

UNSUITABLE EXTINGUISHING MEDIA:

FIRE FIGHTING PROTECTIVE EQUIPMENT: A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

FURTHER INFORMATION:

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Ensure adequate ventilation. Do not breathe the powder. Avoid contact with skin, eyes and clothing.

ENVIRONMENTAL PRECAUTIONS: Not a hazard to the environment.

METHODS OF CLEANING UP: Dam up. Soak with inert absorbent material. Use mechanical handling equipment. Dispose of absorbed material in accordance with regulations.

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7. HANDLING AND STORAGE

HANDLING: Provide exhaust ventilation if dust is formed. Suitable industrial vacuum cleaners or central exhaust ventilation equipment must be used for taking up dust

STORAGE: Keep only in original container. Store in cool, dry place away from heat, sparks, flame and direct sunlight.

Keep container closed to prevent water absorption and contamination. Keep away from sources of ignition – No Smoking.

IMPORTANT:

STORAGE TEMPERATURE:

INDUSTRIAL HYGIENE PRACTICES: Wash face and hands thoroughly with the soap and water after use and before eating, drinking, smoking or applying cosmetics.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS:

CAS No:	Material	Type	Value	Unit	
7631-86-9	Amorphous Silica	TVL(TWA)	6	mg/ m ³	Total inhalable dust
7631-86-9	Amorphous Silica	TVL(TWA)	3	mg/ m ³	Total respirable dust
50-00-0	Formaldehyde	TVL(TWA)	2.5	mg/ m ³	
50-00-0	Formaldehyde	MEL (10 min)	2.5	mg/ m ³	

ENGINEERING MEASURES: No special precautions required.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORS: Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. A suitable mask with filter type A may be appropriate. In the event of formation of particularly high levels of dust a self-contained breathing apparatus may be appropriate.

EYE PROTECTION: Safety glasses or chemical splash goggles.

GLOVES: Wear suitable gloves. PVA/Polyethylene laminate and supported PVA gloves offer the best protection. Gloves should be changed regularly and if excessive exposure has occurred.

OTHER: Wear suitable protective clothing.

PROTECTIVE MEASURES: Do not breathe vapours/dust. Avoid contact with skin, eye & clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid Suspension
COLOUR:	White
ODOUR:	None
PH	NA at 20 °C
BOILING POINT:	100 °C
MELTING POINT:	0 °C
THERMAL DECOMPOSITION:	NA °C
IGNITION TEMPERATURE:	NA °C
VAPOUR PRESSURE:	32hpa at 25 °C
DENSITY:	1.1-1.4 g/cm ³
WATER SOLUBILITY:	Completely miscible

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None.

INCOMPATIBILITY (MATERIALS TO AVOID): None.

HAZARDOUS DECOMPOSITION PRODUCTS: No known hazardous decomposition

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Amorphous Silica: LD50/ORAL/RAT = 3160 mg/kg; RTECS, 77717
 Formaldehyde: LD50/DERMAL/RABBIT = 270 mg/kg ; RTECS, 36172
 LC50/INHALATION/H/RAT= 9530 mg/kg; RTECS, 35569

Local effects: may cause eye/skin irritation

Excessive exposures may affect human health, as follows

Skin contact: local: irritation, discomfort, rash
 Eye contact: local: irritation, discomfort, excessive lachrymation, blurred.
 Inhalation (Respirable particles) irritation, discomfort, cough, difficulty in breathing.

12. ECOLOGICAL INFORMATION

EXOTOXICITY EFFECTS: No data available.

FURTHER INFORMATION ON ECOLOGY: None

13. DISPOSAL CONSIDERATIONS

Substance/preparation: can be incinerated, when in compliance with the Environmental Protection Act 1990 (Process guidance note IPR 5/1). Can be land-filled after concentration when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

Packaging: Empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal.

14. TRANSPORTATION

LAND TRANSPORT:

ADR

REGULATION: Not dangerous goods – full transport

RID:

REGULATION: Not dangerous goods – full transport

AIR TRANSPORT –

IATA CLASS:

REGULATION Not dangerous goods – full transport

OCEAN TRANSPORT –

IMDG CLASS:

REGULATION Not dangerous goods – full transport

15. REGULATORY INFORMATION

EC REGULATIONS –

EINECS: all chemical listed

EEC Classification:

Risk Phrases:

Safety Phrases:

HAZARDOUS COMPONENTS WHICH MUST BE LISTED ON THE LABEL:

NATIONAL LEGISLATION:

NOTIFICATION STATUS: EINECS Not Required
 TSCA

MATERIAL SAFETY DATA SHEET**16. ADDITIONAL INFORMATION**

This data sheet was prepared in accordance with Directive 91/155/EEC.

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