



MATERIAL SAFETY DATA SHEET

PRODUCT NUMBER: 15 99 97 – 15 99 99

SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

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

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PRODUCT: SILCO POLISHING SUSPENSION 15 99 97-15 99 99

SECTION 2 SUBSTANCE HAZARDS IDENTIFICATION

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

The product is according to Regulation (EC) No. 1272/2008 not classified.

Classification according to Directive 67/548/EWG or Directive 1999/45/EG:

The product is according to Directive 67/548/EWG or Directive 1999/45/EG not classified.

2.2 Label elements according to Regulation (EC) No. 1272/2008:

Hazard pictogram(s): not applicable
Signal word: not applicable

Hazardous components for labelling: not applicable

Hazard statements: not applicable

Precautionary statements:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P270	Do not eat, drink or smoke when using this product.
P305 + P351 + P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash with water and soap thoroughly after handling.

2.3 Other hazards:

The product doesn't meet the criteria for classification as PBT or vPvB.

No specific hazards known, if instructions/indications for storage and handling are observed.



SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3. Composition/information on ingredients

3.2 Mixtures

Silicon dioxide; amorphous, produced by chemical method

CAS-Number:	7631-86-9
EINECS-Number:	231-545-4
REACH-Registry number:	01-2119379499-16
Content:	10 - 60 % depending on grade

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Remove/Take off immediately all contaminated clothing.
Get Medical advice/attention if you feel unwell.

After inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If irritation persists: Get medical advice/attention.

After skin contact

Rinse continuously with water for several minutes. Use lipid regulating cream. Remove/Take off immediately all contaminated clothing.

After eye contact

Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth. Do NOT induce vomiting. If irritation persists: Get medical advice/attention. No neutralisation trials.

4.2 Most important symptoms and effects, both acute and delayed:

After Inhalation: Irritation of respiratory tract.
After skin contact: Irritation of skin.
After important symptoms or effects not known.

4.3 Indication of any immediate medical attention and special treatment needed:

Sympathomimetika by irritation of respiratory tract.

April 2016

SECTION 5 FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: No restriction. Product is non-flammable.
For safety reasons unsuitable extinguishing media: Water jet

5.2 Special hazards arising from the substance or mixture

No hazardous compustion products known.

5.3 Advice for firefighters

Breathing apparatus with mit independent fresh air supply.

Additional informations: Extinguishing media has to be dispose by official regulations.



SECTION 6

ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
Avoid dust/fume/spray formation.
Accidental release measures: Ensure adequate ventilation.

6.2 Environmental precautions

Keep away from drains, surface and ground water.
Retain contaminated water/extinguishing media.

6.3 Methods and material for containment and cleaning up

Bigger amounts (> 1 L): Pump out product.
Small amounts (< 1 L): Leaked substance has to be taken by non-flammable, liquid-binding materials (e.g. sand; ground; kieselguhr) and dispose by official regulations.

Reference to other sections: Deceptive data due to personal protective equipment as well as information for disposal are listed in chapter 8

SECTION 7

HANDLING AND STORAGE

7.1 Precautions for safe handling

By intended use no measures necessary. In working areas do not eat, drink or smoke when using this product. Precautionary measures according to TRGS 500. Avoid dust/fume/spray formation. Local exhaust ventilation recommended.

7.2 Conditions for safe storage, including any incompatibilities

Take precautionary measures against static discharges. Store distant from water incompatible substances.

Additional informations due to storage conditions:

Recommended storage temperature: 15 – 25 °C. Store in sealed, alkali-resistant containers, preferably protected by light and temperatures below 5 °C. Protect against frost.

Storage class: 12

7.3 Specific uses

industrial intermediate for industry and commerce

SECTION 8

EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit according to TRGS 900:

Silicon dioxide; CAS-No: 7631-86-9; REACH-Registry number: 01-2119379499-16

Value: 4 mg/m³

Top limit: not applicable

Notice: DFG; 2; Y

DNEL (Derived No Effect Level):

Silicon dioxide; CAS-No: 7631-86-9; REACH-Registry number: 01-2119379499-16

Worker (long-term exposition – inhalation): 4 mg/m³

PNEC (predicted no effect concentration):

Silicon dioxide; CAS-No: 7631-86-9; REACH-Registry number: 01-2119379499-16

Fresh water: not applicable

Sea water: not applicable

Ground: not applicable

Sewage plant: not applicable



SECTION 10

STABILITY AND REACTIVITY PROPERTIES

10. Stability and reactivity

10.1 Reactivity

Hazardous reactions aren't known, if the regulations/advice for storage and handling are observed.

10.2 Chemical stability

The product is chemical stable, if the regulations/advice for storage and handling are observed.

10.3 Possibility of hazardous reactions

If used as recommended no hazardous reactions are to be expected.

10.4 Conditions to avoid

Use caution when working with chemicals and always attend to the precautions. Protect against frost and drying up.
Storage temperatures below 5 °C.

10.5 Incompatible materials

Cationic agents; electrolytes in higher quantities

10.6 Hazardous decomposition products

No hazardous decomposition products known, if the regulations/advice for storage and handling are observed.

SECTION 11

TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

a) Acute toxicity

Silicon dioxide; CAS-No: 7631-86-9; REACH-Registry number: 01-2119379499-1

LD50 rat (oral):	> 10.000 mg/kg
LD50 rat (inhalative; 4h):	> 2.000 mg/m ³
LD50 rabbit (dermal; 24h):	> 5.000 mg/m ³

b) Skin corrosion

Silicon dioxide; CAS-No: 7631-86-9; REACH-Registry number: 01-2119379499-16
Substance/mixture not corrosive.

c) Serious eye damage/irritation:

Silicon dioxide; CAS-No: 7631-86-9; REACH-Registry number: 01-2119379499-16
May cause skin irritation.
May cause eye irritation.

d) Respiratory or skin sensitisation

Silicon dioxide; CAS-No: 7631-86-9; REACH-Registry number: 01-2119379499-16
No sensitising effect known.

e) STOT-single exposure and STOT-repeated exposure

Silicon dioxide; CAS-No: 7631-86-9; REACH-Registry number: 01-2119379499-16
After repeated exposure local irritation is foregrounded.

f) Carcinogenicity

Silicon dioxide; CAS-No: 7631-86-9; REACH-Registry number: 01-2119379499-16
Carcinogenicity unverifiable.

g) Germ cell mutagenicity

Silicon dioxide; CAS-No: 7631-86-9; REACH-Registry number: 01-2119379499-16
Mutagenicity unverifiable.

h) Reproductive toxicity

Silicon dioxide; CAS-No: 7631-86-9; REACH-Registry number: 01-2119379499-16
Test on animals by doses at 500 mg/(kg*bw*d) addicted no indications to a reproductive effect.

Further informations: The toxicological classification of the substance/mixture is based on the results of the arithmetic technique (conventional method) in correlation to Directive 67/548/EWG or Directive 1999/45/EG. Past experiences of the producer shows in correlation to the classification no beyond adverse effects.



SECTION 12

ECOLOGICAL INFORMATION

12.1 Toxicity

Silicon dioxide; CAS-No: 7631-86-9;

Fish toxicity LC50 (brachydanio rerio):

> 10.000 mg/L/96h (OECD TG 203)

Aquatic toxicity EC50 (daphnia magna):

> 10.000 mg/L/24h (OECD TG 202)

aquatic plants EC50 (scenedesmus subspicatus):

> 10.000 mg/L/72h (OECD TG 201)

activity of microorganisms:

no data available

12.2 Persistence and degradability

not applicable

12.3 Bioaccumulativ potential

not applicable

12.4 Mobility in soil

not applicable

12.5 Results of PBT and vPvB assessment

The product doesn't consists of a substance which meets the criteria for classification as PBT or vPvB.

12.6 Other adverse effects

By intened use and observence the regulations/advices for storage and handling no adverse effects be expected.

SECTION 13

DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

The disposal by sewage water is not recommended. Disposal is regulated by the federal and state waste disposal laws as well as the relevant directives issued in conjunction with them. Contact the relevant authority for further informations about waste disposal.

Disposal code:

Product: 06 08 waste from aus manufacturing, preparation, distribution and application of silicon and silicon compounds

Packaging: 15 01 02 plastic packaging

15 01 04 metal packaging

Non-contaminated packaging should be reused.

Recommended cleaning agent: water

SECTION 14

TRANSPORT INFORMATION



- | | |
|--|-----------------------------------|
| 14.1 UN-Number | not applicable |
| 14.2 UN proper shipping name | not applicable (colloidal silica) |
| 14.3 Transport hazard class(es) | not classification |
| 14.4 Packing group | no classification |
| 14.5 Enviromental hazards | |
| Labelling enviromental compounts | |
| land transport ADR/RID: | not classified |
| maritime transport IMDG/GGVSee: | not classified |
| air transport ICAO-TI und IATA-DGR: | not classified |
| Marine Pollutant: | not classified |
| 14.6 Special precautions for users | |
| See figure 6 to 8 | |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC-Code | |
| The dispensing takes only place inlisted and legal transport packaging. | |
| Contamination class (X, Y oder Z): | not specified |
| Water vessel category (1,2 oder 3): | not specified |

SECTION 15

REGULATORY INFORMATION

15.1 Safety, health and enviromental regulations/legislation specific for the substance or mixture

EU-Regulations:

Regulation (EC) No. 2037/2000 (substances, that deplete the ozone layer):
Not applicable.

Regulation (EC) No. 850/2004 (persistent organic pollutants):
Not applicable.

Regulation (EC) No. 689/2008 (concerning the export and import of dangerous chemicals):
Not applicable.

Regulation (EC) No. 648/2004 (detergents regulation):
Not applicable.

Restrictions according to Annex VIII of Regulation (EC) No. 1907/2006:
neither

National regulations:

Water hazard classification according to VwVwS (Germany) Annex 1: not water-hazardous

15.2 Chemical safety assessment

Chemical safety assessment implemented

SECTION 16

OTHER INFORMATION

16. Other information

Safety relevant changes Initial issue

Hazard statements which are listed in sections 2 and 3

According to Regulation (EC) No. 1272/2008: not applicable
According to Directive (67/548/EWG): not applicable

**Key literature references and sources for data:**

Directive (1999/45/EG), last amended by Regulation (EC) No. 1907/2006
Directive (67/548/EWG), last amended by Directive 2009/2/EG
Regulation (EC) No. 1907/2006, last amended by Regulation (EU) No. 453/2010
Regulation (EC) No. 1272/2008, last amended by Regulation (EU) No. 790/2009

Internet:

<http://www.baua.de> TRGS 500; TRGS 900

Indication of the methods of evaluating information referred to in Article 9 of Regulation (EC) 1272/2008 was used for the purpose of classification;

No classification according to Regulation (EC) No. 1272/2008 was necessary.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR	Recommendations on the Transport of Dangerous Goods
CAS	Chemical Abstracts Service
EC	Effective concentration
EC	European Commission
EINECS	European Inventory of Existing Commercial chemical Substances
EN	European Norm
IATA-DGR	International Air Transport Association - Dangerous Goods Regulation
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals Bulk
in	
ICAO-TI	International Civil Aviation Organisation – Technical Instructions
IMDG-Code	International Maritime Code for Dangerous Goods
LC	Lethal concentration
LD	Lethal dose
MARPOL	Maritime Pollution Convention
OECD	Organisation for Economic Co-operation and Development
PBT	Persistence, Bioaccumulative, Toxic
RID	Convention concerning International Carriage by Rail
TRGS	Technical Directive for dangerous chemical
UN	United Nations
vPvB	very persistence, very bioaccumulative
VwVwS	Administrative regulation of water hazard substances
WGK	Water hazard classification
