

Material Safety Data Sheet

Product & Company Identification

Product:	Pure silicone Shock Oil 1000cps, 60 ml (OEM-700122)
Manufacturer:	Conrad Electronic SE
Address:	Klaus-Conrad-Str. 1, D-92240 Hirschau
Telephone:	+49 (0) 9604 / 40 - 8988
Date of issue:	27.03.2014

This product consists of 2 different materials:

Material name:	Weight%
ELEMENT14 * PDMS 100	25%
ELEMENT14 * PDMS 1000	75%

The 2 different MSDS are attached on the following pages:

ELEMENT14 * PDMS 100	Page 2 - 7
ELEMENT14 * PDMS 1000	Page 8 - 13

Material Safety Data Sheet

1. Product & Company Identification

Product:	ELEMENT14 * PDMS 100
Manufacturer:	Conrad Electronic SE
Address:	Klaus-Conrad-Str. 1, D-92240 Hirschau
Telephone:	+49 (0) 9604 / 40 - 8988
Date of issue:	27.03.2014

Chemical Family/Use: Silicone fluid

Formula: Polydimethylsiloxane

HMIS Health: 0 Flammability: 1 Reactivity: 0

NFPA Health: 0 Flammability: 1 Reactivity: 0

2. Hazards Identification

EMERGENCY OVERVIEW

Attention! This material is not considered hazardous by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Form: Liquid

Color: Colorless

Odor: Odorless

POTENTIAL HEALTH EFFECTS

INGESTION

No adverse effects are expected under normal conditions of use.

SKIN

No adverse effects are expected under normal conditions of use.

INHALATION

No adverse effects are expected under normal conditions of use.

EYES

No adverse effects are expected under normal conditions of use. May cause irritation. May cause: - swelling of the conjunctivae

MEDICAL CONDITIONS AGGRAVATED

None known.

SUBCHRONIC (TARGET ORGAN)

None known.

CHRONIC EFFECTS / CARCINOGENICITY

This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

ROUTES OF EXPOSURE

No anticipated routes of exposure

Material Safety Data Sheet

3. Composition/Information on Ingredients

PRODUCT COMPOSITION	CAS-No.	WGT. %
A. HAZARDOUS		
-	-	-
B. NON-HAZARDOUS		
Polydimethylsiloxane	63148-62-9	60 - 100 %

4. First Aid Measures

INGESTION

If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice. Never give liquid to an unconscious person.

SKIN

Wash area with soap and water.

INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

EYES

Rinse immediately with plenty of water. Consult a physician for specific advice.

NOTE TO PHYSICIAN

Treatment is symptomatic and supportive.

5. Fire Fighting Measures

FLASH POINT: > 300 °C; 572 °F

IGNITION TEMPERATURE: Not applicable

FLAMMABLE LIMITS LEL: Not applicable

FLAMMABLE LIMITS UEL: Not applicable

SENSITIVITY TO MECHANICAL IMPACT: No

SENSITIVITY TO STATIC DISCHARGE

Sensitivity to static discharge is not expected.

EXTINGUISHING MEDIA

All standard extinguishing agents are suitable.

SPECIAL FIRE FIGHTING PROCEDURES

Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

Material Safety Data Sheet

6. Accidental Release Measures

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

7. Handling and Storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed. Keep out of reach of children. Attention: Not for injection into humans.

STORAGE

Keep container tightly closed in a cool, well-ventilated place.

8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS

Eye wash facilities and emergency shower must be available when handling this product.; Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

RESPIRATORY PROTECTION

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).

PROTECTIVE GLOVES

Chemical resistant gloves

EYE AND FACE PROTECTION

Safety glasses with side shields

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

Component	CAS-No.	Source	Value
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Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average; INTL REL - Internal Recommended Exposure Limit OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

Material Safety Data Sheet

9. Physical and Chemical Properties

BOILING POINT (°C):	>200 °C; 392 °F; Polymer
VAPOR PRESSURE (20 C) (MM HG):	0.10
VAPOR DENSITY (AIR=1):	> 1.0
FREEZING POINT:	< -25 °C; -13 °F
PHYSICAL STATE:	Liquid
ODOR:	Odorless
COLOR:	Colorless
EVAPORATION RATE (BUTYL ACETATE=1):	< 1
DENSITY:	0.96 g/cm ³
ACID / ALKALINITY (MEQ/G):	No data available.
pH:	No data available.
SOLUBILITY IN WATER (20 C):	Insoluble
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	Soluble in toluene
VOC EXCL. H₂O & EXEMPTS (G/L):	5 g/l

10. Stability and Reactivity

STABILITY

Stable

HAZARDOUS POLYMERIZATION.

Hazardous polymerisation does not occur.

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Carbon dioxide; Silicon dioxide.; Formaldehyde.; This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150°C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

INCOMPATIBLE MATERIALS

None known.

CONDITIONS TO AVOID

None known.

Material Safety Data Sheet

11. Toxicological Information

ACUTE ORAL

LD50; Species: Rat; > 5,000 mg/kg;

ACUTE DERMAL

LD50; Species: Rabbit; > 10,000 mg/kg;

ACUTE INHALATION

LC50; Species: Rat; > 535 mg/l;

OTHER

No data available.

SENSITIZATION

Test type: Magnusson-Kligmann; Species: Guinea Pig; Result: negative. Method: OECD-Guideline 406 (Skin Sensitisation).
Did not cause sensitization on laboratory animals.

SKIN IRRITATION

Species: Rabbit; Result: No skin irritation

EYE IRRITATION

Species: Rabbit ; Result: No eye irritation

MUTAGENICITY

Negative in the Ames test.

12. Ecological Informations

ECOTOXICITY

No data available.

DISTRIBUTION

No data available.

CHEMICAL FATE

No data available.

13. Disposal Considerations

DISPOSAL METHODS

Disposal should be made in accordance with federal, state and local regulations.

14. Transport Information

Further Information:

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

Material Safety Data Sheet

15. Regulatory Information

Inventories

Australia Inventory of Chemical y (positive listing)

Substances (AICS)

EU list of existing chemical substances y (positive listing)

Japan Inventory of Existing & New Chemical Substances (ENCS) y (positive listing)

China Inventory of Existing Chemical Substances y (positive listing)

Korea Existing Chemicals Inventory (KECI) y (positive listing)

Canada DSL Inventory y (positive listing)

Canada NDSL Inventory n (Negative listing)

New Zealand Inventory of Chemicals y (positive listing)

Philippines Inventory of Chemicals and Chemical Substances (PICCS) y (positive listing)

TSCA list y (positive listing) On TSCA Inventory

For inventories that are marked as quantity restricted or special cases, please contact us.

US Regulatory Information

SARA (311,312) HAZARD CLASS: No SARA Hazards

SARA (313) CHEMICALS: -

Canadian Regulatory Information

WHMIS CLASSIFICATION: This is not a WHMIS controlled product.

16. Other Information

OTHER

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

- | | |
|-------------------------|----------------------------------|
| C = ceiling limit | NEGL = negligible |
| EST = estimated | NF = none found |
| NA = not applicable | UNKN = unknown |
| NE = none established | REC = recommended |
| ND = none determined | V = recommended by vendor |
| SKN = skin | TS = trade secret |
| R = recommended | MST = mist |
| NT = not tested | STEL = short term exposure limit |
| ppm = parts per million | ppb = parts per billion |

By-product = reaction by-product, TSCA inventory status not required under 40 CFR part 720.30(h-2).

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FLASH POINT: > 300 °C; 572 °F

IGNITION TEMPERATURE: Not applicable

FLAMMABLE LIMITS LEL: Not applicable

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SENSITIVITY TO MECHANICAL IMPACT: No

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PHYSICAL STATE:	Liquid
ODOR:	Odorless
COLOR:	Colorless
EVAPORATION RATE (BUTYL ACETATE=1):	< 1
DENSITY:	0.96 g/cm ³
ACID / ALKALINITY (MEQ/G):	No data available.
pH:	No data available.
SOLUBILITY IN WATER (20 C):	Insoluble
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	Soluble in toluene
VOC EXCL. H₂O & EXEMPTS (G/L):	14 g/l

10. Stability and Reactivity

STABILITY

Stable

HAZARDOUS POLYMERIZATION.

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