



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

PRODUCT NAME: **SYLGARD D-1,4 FC, KOMPONENT A**

USE: Two-component silicon elastomer for shaping a smooth, durable surface, also able to decontaminate, used in a fireseal system.

SUPPLIER: ESSVE PRODUKTER AB, Box 770, 191 27 Sollentuna, Sweden.
Internet: www.fireseal.se

CONTACT: Dick Johansson, tel. +46 (0)8 623 61 00

EMERGENCY PHONE: If acute emergency dial: tel. 112
More information: Swedish Poisons Information Centre tel.+46 (0)8 33 12 31

2. COMPOSITION/ INFORMATION ON INGREDIENTS/CLASSIFICATION OF SUBSTANCES

Substance	EG No	CAS No.	Percentage %	Classification; Risk-phrases*
Quartz, crystalline silica	238-878-4	14808-60-7	46	***Xn; R48/20 R68/20 ¹⁾
Zinc oxide	215-222-5	1314-13-2	0,9	N; R50/53

The product also contains siloxanes and pigments.

* *Classification and Risk-phrases in compliance with Commission Directive 67/548/EEC, 2001/59/EC and 1999/45/EC, 2001/60/EC.*

** *Own classification*

*** *Producers classification*

1) Quartz may cause serious health effects at prolonged exposure through inhalation. The product is a liquid and the risk of inhaling respirable quartz dust is considered as non-existing why the classification is not relevant.

Declared R-phrases are explained under chapter 16.

3. HAZARDS IDENTIFICATION

Health: *The product is not classified as harmful.*
Skin irritation may arise after prolonged contact. Eye contact may cause smarting pain and mild irritation.

Environmental: *The product is not classified as hazardous to the environment.*
It contains a small amount of zinc oxide which has a moderate to high toxicity to aquatic organisms, moderate to high potential for bioaccumulation but won't give a biomagnifications in the food chain.

Fire: Non flammable. At fire poisonous and corrosive gases (formaldehyde) may develop.

Physical/
chemical: -

4. FIRST- AID MEASURES

Inhalation: Fresh air.

Skin contact: Take off contaminated clothes. Wash the skin with soap and water.

Eye contact: Rinse the eyes with plenty of water for several minutes. Keep the eyelids open and remove possible contacts. Seek medical advice if pain remains.

Ingestion: Drink a few glasses of milk or water. Seek medical advice if a larger amount has been swallowed.

Information to -
medical adviser:

Updated Safety Data Sheet is available at Swedish Poisons Information Centre tel.+46 (0)8 33 12 31

5. FIRE- FIGHTING MEASURES

Suitable extinguishing agents are – powder, foam, carbon dioxide or water spray. Container near fire should be removed or cooled with water. Use breathing apparatus towards poisonous and corrosive gases. When heated to more than 150°C small amounts of formaldehyde may be released.

6. ACCIDENTAL RELEASE MEASURES

Prevent from discharge to drain. Absorb waste with a liquid binding material such as sand, soil or similar. Gather together and treat as hazardous waste.

7. HANDLING AND STORAGE

Store in a well-ventilated area separated from oxidizers.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Ensure adequate ventilation.

Technical protection: -

Personal protection: At prolonged handling protection gloves might be needed. When there is a risk for splash in the eyes, goggles might be needed. If the product is used under conditions where aerosol or mist may be formed, a suitable respiratory protection equipment (gas mask with particle filter P3) should be used.

Recommended glove material: -

Exposure limits according to the Swedish Work Environment Authority (*AFS 2005:17*)

Quartz, respirable dust: 0,1 mg/m³ NGV

Zinc oxide, total dust: 5 mg/m³ NGV

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous black liquid with weak odour.

Density: 1,33 g/cm³

Flash point: >101,1 °C (Tag closed cup)

Boiling point: > 170 °C

Viscosity: 50 000 cSt (25°C)

10. STABILITY AND REACTIVITY

Stable under normal conditions. When heated to temperatures more than 150 °C, small amounts of formaldehyde may develop.

11. TOXICOLOGICAL INFORMATION

Inhalation: No known risks.

At dusty handling as grinding or dismantling, small amounts of crystalline silica may be liberated. Inhalation during a longer period may be dangerous. May cause serious lung damage (like silicosis) after prolonged or often repeated exposure.

Skin contact: May cause mild irritation after prolonged or repeated contact.

Eye contact: Eye contact may cause smarting pain and mild irritation.

Ingestion: Ingestion of large amounts may cause sickness and vomiting.

Further toxicological remarks: There are studies indicating that inhalation of crystalline silica may cause lung cancer.

Toxicological data: -

12. ECOLOGICAL INFORMATION

The product is classified as environmentally hazardous. It contains a small amount of zinc oxide which has a moderate to high toxicity to aquatic organisms, moderate to high potential for bioaccumulation but doesn't give any biomagnification in the food chain.

Aquatic toxicity: Zinc oxide: LC₅₀ Fish 96h: 1,1 mg/l (spec.: Onchorhynchus mykiss), EC₅₀ Daphnia 48h: 24,6 mg/l (spec.: D. magna).

Biodegradable: -

Mobility and bioaccumulation: Zinc oxide: Log P_{ow} < 0

13. DISPOSAL CONSIDERATIONS

Treat as hazardous waste, EWC-code 08 04 09, in accordance to local regulations (Avfallsförordningen, SFS 2001:1063).

14. TRANSPORT INFORMATION

Not a hazardous product regarding transport legislation.

15. REGULATORY INFORMATION

Symbols

-

Contains:

Zinc oxide

Risk and Safety phrases

R 52/53 HARMFUL TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

S 61 Avoid release to the environment. Refer to special instructions/ Safety data sheets

Other labelling:

-

Other regulations:

If the contents of the package do not exceed 125 ml it shall be necessary to indicate the R phrases but it shall not be necessary to indicate the S phrases.

16. OTHER INFORMATION

References:

Kemikalieinspektionens föreskrifter (KIFS 2005:5) med EG-harmoniserad bindande klassificering och märkning (Klassificeringslistan).

Lewis, R.J. (1992) Sax´s Dangerous Properties of Industrial Materials, 8th ed., Van Nostrand Reinhold, New York.

Databaserna: HSDB, IARC, IUCLID, Prioriteringsguiden

Kemiska Ämnen on line, Prevent.

Arbetskyddsstyrelsens Författningssamling, AFS 2005:17, Hygieniska gränsvärden och åtgärder mot luftföroreningar.

Information from the supplier.

This material safety data sheet was prepared in compliance with KIFS 2005:7, (Commission Directive 67/548/EEG, 2001/59/EG and 1999/45/EG, 2001/60/EG).

Declared R-phrases under chapter 2.

- | | | | |
|---------|--|---------|---|
| R 48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation | R 50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R 68/20 | Harmful: possible risk of irreversible effects through inhalation | | |

This safety data sheet is revised according to following items:

- The safety data sheet has been revised according to new legislation (Swedish) KIFS 2005:7.
- The safety data sheet is dated 2007-09-11 and replaces version dated 2001-07-06.