

**1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY**

PRODUCT NAME: **CONSTRUCTION COATING 3-5000**

USE: One-component silicon based weatherproof paint. The paint is water repellent, UV-resistant and creates durable protection.

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*
Titandioxide	236-675-5	13463-67-7	6	
Quartz (crystalline silica)	238-878-4	14808-60-7	31	**Xn; R48/20 ***R68/20 <sup>1)</sup>
White spirit	232-489-3	8052-41-3	12	Canc2; R45 <sup>2)</sup> , Xn R65 <sup>2)</sup> **Xi; R38, R67 R52/53 ***R10
2-Butanone oxime	202-496-6	96-29-7	1	Canc3; R40 Xn; R21 Xi; R41 R43
Methyltri(ethylmethylketoxim)silane	245-366-4	22984-54-9	4	***Xn; R20 Xi; R43 R36 R66
Oktamethyltrisiloxane	203-497-4	107-51-7	3	***R10 R53
Dekamethyltetrasiloxane	205-491-7	141-62-8	2	*** R53
Di(ethylmethylketoxim)methoxy-methylsilane	280-973-8	83817-72-5	0,1-< 1,5	***Xi; R36 R43 Xn; R20/22 R66
Dibutyltindilaurate	201-039-8	77-58-7	< 2	**T; R24/25 R36 R50

\* *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.
- 2) The product is viscous and has a kinematical viscosity above the limit for classification (R 65), according to information from the supplier. Contains less than 0,1 % benzene, why classification Canc2; R45 is not relevant.

Declared R-phrases are explained under chapter 16.

**3. HAZARDS IDENTIFICATION**

Health: *May cause sensitization by skin contact. Vapours may cause drowsiness and dizziness. Limited evidence of a carcinogenic effect.*

Inhalation may cause smarting pain in the nose and throat, headache, sickness and dizziness. At prolonged and repeated contact there is a risk for kidney and liver injuries. Risk for skin dryness. Prolonged skin contact may cause sensitization and allergic contact eczema. Splash in the eyes gives smarting and temporary irritation.

Environmental: *The product is not classified as hazardous to the environment.*

The product contains white spirit which has moderate toxicity to aquatic organisms and may cause long-term adverse effects in the aquatic environment and dibutyltindilaurate which is very toxic to aquatic organisms.

Fire: Classified as a flammable liquid, class 2b. If heated the fumes may form an explosive mixture with air.

Physical/chemical: Might cause damage to gaskets, lacquered and painted surfaces, protective and tightening grease proofing and material from nature rubber.

#### 4. FIRST- AID MEASURES

Inhalation: Fresh air.

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

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

Ingestion: Drink a few glasses of milk or water. Do **not** induce vomiting. Seek medical advice if a larger amount has been swallowed.

Information to medical adviser: White spirit increases the sensitiveness for catecholamine of the heart. Therefore, do not treat with adrenaline, noradrenaline, ephedrine or similar – risk of cardiac arrhythmia.

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. Do not use water jet. Container near fire should be removed or cooled with water. Use breathing apparatus towards poisonous and corrosive gases, (formaldehyde). When heated to more than 150 °C, small amounts of formaldehyde may develop.

#### 6. ACCIDENTAL RELEASE MEASURES

Caution! Risk for ignition and explosion. Avoid discharge to drain. Absorb waste with a liquid binding material such as sand, soil or similar and treat as hazardous waste. Spilled product will cause an extremely slippery surface. See also heading 8, personal protection.

#### 7. HANDLING AND STORAGE

Avoid inhalation and direct contact of the product. Handle and store away from source of ignition. No smoking, fire, sparks or welding. Keep the container well closed and store in a dry and well-ventilated area. The product must not be stored in iron or steel container.

#### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Ensure adequate ventilation. Possibility to flush eyes ought to be available.

Technical protection: At insufficient ventilation mechanical ventilation and point suction should be used.

Personal protection: Protection gloves and goggles should be used when there is a risk for direct contact or at prolonged handling. At prolonged handling respiratory protection equipment (gas mask with gas filter A, brown) ought to be used.

Recommended glove material: Silver shield or 4H.

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

White spirit:	300 mg/m <sup>3</sup> NGV
Titandioxide (total dust):	5 mg/m <sup>3</sup> NGV
Quartz (respirable dust):	0,1 mg/m <sup>3</sup> NGV
Dekamethyltetrasiloxane:	200 ppm (recommendation from the supplier)
Oktamethyltrisiloxane:	200 ppm (recommendation from the supplier)

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Viscous grey liquid with smell of solvents.
Density:	1,21 g/cm <sup>3</sup>
Boiling point:	35°C
Flash point:	38°C
Viscosity:	38 000 cSt (at 25 °C)

**10. STABILITY AND REACTIVITY**

Stable under normal conditions. When heated to more than 150 °C, small amounts of formaldehydemay be released. Might react violently in contact with electrophilic substances, for example ferric chloride.

**11. TOXICOLOGICAL INFORMATION**

Inhalation:	Inhalation may cause smarting pain in the nose and throat, headache, tiredness, sickness, dizziness and at high amounts unconsciousness. At prolonged and repeated contact there is a risk for kidney and liver injuries.	
	At dusty handling, for example grinding or dismantling small amounts of cristalline 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:	Skin contact may cause smarting pain, redness, and irritation. At prolonged exposure there is a risk for sensitization and allergic contact eczema.	
Eye contact:	Splash in the eyes gives strong smarting and temporary irritation.	
Ingestion:	Ingestion may cause smarting pain in the mouth and throat, sickness, vomiting, stomach pain and similar effects as at inhalation.	
Further toxicological remarks:	2-Butanone oxime is a suspected carcinogenic substance for humans. There are studies indicating that inhalation of crystalline silica may cause lung cancer.	
Toxicological data:	White spirit:	LD <sub>50</sub> oral rat: >5000 mg/kg, LD <sub>50</sub> skin rabbit: >3000 mg/kg, LC <sub>50</sub> inhalation rat: >5,5 mg/l/4h.
	2-Butanone oxime:	LD <sub>50</sub> oral rat: 930 mg/kg, LD <sub>50</sub> skin rabbit: 200 µl/kg, LC <sub>50</sub> inhalation rat: 20 mg/l/4h.
	Dibutyltindilaurate:	LD <sub>50</sub> oral rat: 175 mg/kg, LD <sub>50</sub> skin rabbit: 200 mg/kg, LC <sub>50</sub> inhalation mouse: 0,150 mg/l/2h.

**12. ECOLOGICAL INFORMATION**

The product is not classified as environmentally hazardous. It contains a white spirit which has a moderate toxicity to aquatic organisms and is potentially bioaccumulative and also dibutyltindilaurate which has a very high toxicity to aquatic organisms.

Aquatic toxicity:	White spirit:	LC <sub>50</sub> fish 96h: 218 mg/l (spec.: Leuciscus idus)
	Dibutyltindilaurate:	LC <sub>50</sub> fish 96h: <2 mg/l (spec.: Leuciscus idus), EC <sub>50</sub> Daphnia 48h: <0,66 mg/l (spec.: Daphnia).

**13. DISPOSAL CONSIDERATIONS**

Treat as hazardous waste, EWC-code 08 01 11, in accordance to local regulations (Avfallsförordningen, SFS 2001:1063).

**14. TRANSPORT INFORMATION**

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (PETROLEUM DISTILLATE/POLYSILOXANE)  
UN nr: 1993 Class: 3 Extra information for transport by sea  
Packaging III EmS-code: F-E, S-E  
group:  
Marine No  
pollutant:

Limited amount: Maximum of 5 litres per inner packing and maximum of 30 kg per package. With inner packaging on a plate with plastic film maximum 5 litre per inner packing and maximum 20 kg per package.

**15. REGULATORY INFORMATION**

Symbols



Harmful

Harmful (Xn)

Contains:

White spirit, 2-butanone oxime, methyltri(ethylmethylketoxim)silane, di(ethylmethylketoxim)methoxy-methylsilane

Risk and Safety phrases

R 10 FLAMMABLE  
R 40 LIMITED EVIDENCE OF A CARCINOGENIC EFFECT  
R 43 MAY CAUSE SENSITIZATION BY INHALATION  
R 67 VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS  
  
S 24 Avoid contact with skin  
S 36/37 Wear suitable protective clothing and gloves  
S 51 Use only in well-ventilated areas  
S 60 This material and its container must be disposed of as hazardous waste

Other labelling:

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Other regulations:

If the product is offered or sold to the general public it should carry a tactile warning of danger. The devices must conform to the technical specifications given in Parts A and B of Annex IX to Directive 67/548/EEC.

**16. OTHER INFORMATION**

References:

Fregert S., Björkner B., Bruze M., Dahlquist I., Gruvberger B., Persson K., Trulsson L. (1990) Yrkesdermatologi, Studentlitteratur, Lund.

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.

Skyddsblad och miljöskyddsblad för kemiska produkter; Sveriges Kemiska Industrikontor, Stockholm.

Databaserna: Toxline, HSDB, IARC, Begränsningsdatabasen, 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 10	Flammable	R 43	May cause sensitization by skin contact
R 20	Harmful by inhalation	R 45	May cause cancer
R 20/22	Harmful by inhalation and if swallowed	R 48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R 21	Harmful in contact with skin	R 50	Very toxic to aquatic organisms
R 24/25	Toxic in contact with skin and if swallowed	R 53	May cause long-term adverse effects in the aquatic environment
R 36	Irritating to eyes	R 52/53	
R 38	Irritating to skin	R 65	Harmful: May cause lung damage if swallowed
R 40	Limited evidence of a carcinogenic effect	R 66	Repeated exposure may cause skin dryness or cracking
R 41	Risk of serious damage to eyes	R 67	Vapours may cause drowsiness and dizziness
		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 2007-09-04 and replaces version dated 2001-07-06.