

Material Safety Data Sheet

1. Identification of the substance/preparation and company

Product Name: Dryshield Cream
Description:
Company name: Safeguard Europe Ltd
Redkiln Close, Redkiln Way
Horsham
West Sussex
RH13 5QL

Tel: +44 1403 210204
Email: info@safeguardeurope.com
Emergency telephone: +44 1403 210204 (Office hours, Mon – Fri)

2. Composition/information on ingredients

Chemical characterization: Alkoxy silanes + water + anti-fungal biocide (less than 1%)

Component	CAS-No.	Concentration [%]
Silane, triethoxyoctyl	2943-75-1	75 – 85 %

3. Hazards identification

Classification (67/548/EEC, 1999/45/EC):

R-Phrase Description: R-38 Irritating to skin

Further hazards: Inhalation of aerosol spray may damage health.

4. First-aid measures

General information: In case of accident or if you feel unwell seek medical advice (show label or MSDS where possible.)

After inhalation: Provide fresh air.

After contact with the skin: Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or MSDS where possible.)

After contact with the eyes: Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After swallowing: Give several small portions of water to drink. Do not induce vomiting.

5. Fire-fighting measures

Extinguishing media: Extinguishing powder, alcohol-resistant foam, carbon dioxide, dry sand.

Hazardous decomposition products: Alcohols. Do not allow extinguishing water to enter sewerage, the soil or inshore waters.

Hazardous combustion products: Nitrous gases, carbon monoxide, carbon dioxide, silicon dioxide.

Fire fighting protective equipment: Use respiratory protection independent of recirculated air.

6. Accidental release measures

Personal precautions: Avoid inhaling mists and vapours. Avoid contact with eyes and skin.

Environmental precautions: Prevent material from entering sewers or surface waters. Contain any fluid that runs out using suitable material (e.g. earth.) Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.

Methods for cleaning up: Do not flush away with water. Take up mechanically and dispose of according to local regulations.

Further information: Eliminate all sources of ignition.

7. Handling and storage

Precautions for handling: In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Spilled substance increases risk of slipping.

For fire and explosion: Keep away from open flames, heat and sparks. In partly emptied containers formation of explosive mixtures is possible. Product can separate methanol.

Storage: Protect against frost. Keep container tightly closed and store in a cool, well ventilated place. Minimum temperature allowed during storage and transportation is 0°C.

8. Exposure controls and personal protection equipment

Exposure limits

Maximum airborne concentrations at the workplace:

CAS No.	Material	Type	mg/m ³	ppm	Dust fract.	Fibre/m ³
64-17-5	Ethanol	OEL	1920	1000		

Exposure in the workplace

General measures: Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Do not eat, drink or smoke when handling.

Respiratory protection: In accordance with instructions: not required. In case of aerosol or mist formation use respiratory protection. Fine dust mask without protection rating.

Hand protection: Recommendation: PVC gloves.

Eye protection: Recommendation: Protective goggles.

Exposure to the environment: Prevent material from entering surface waters and soil.

9. Physical and chemical properties

Physical state/form: Paste
Colour: White to yellowish
Odour: Slight

Important information about the protection of health, safety and the environment:

Property	Value	Method
Melting point/melting range:	Not determined	
Boiling point/boiling range:	100°C	
Flash point:	70°C	(ISO 3679)
Sustained combustibility:	>95°C	(ISO 9038)
Ignition temperature:	265°C	
Lower explosion limit (LEL):	Not determined	
Upper explosion limit (UEL):	Not determined	
Density:	Approx. 0.9 g/cm ³	
Water solubility/miscibility:	Completely miscible at 20°C	
pH-value:	Not applicable	
Viscosity (dynamic):	Not applicable	

Other information: Regarding above solubility in water: Hydrolytic decomposition occurs. Explosion limits for released ethanol: 3.5 - 15% (V).

10. Stability and reactivity

General information: If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Materials to avoid: Reacts slowly with water and acids. Reaction causes the formation of ethanol.

Hazardous decomposition products

By hydrolysis: Ethanol.

11. Toxicological information

General information: According to our present state of knowledge no damaging effect expected when treated in accordance with standard industrial practices and local regulations where applicable.

Toxicological tests: Acute toxicity (LD50/LC50-values relevant to classification)

Exposition	Value/value range	Species	Source
oral	> 2000 mg/kg	rat	Conclusion by analogy
by inhalation	> 5.2 mg/l/4h (spray/dust)	rat (Limit Test)	test report

Specific symptoms in animal test

Acute inhalation:	No mortality with the given dose. Assessed on the basis of constituents: LD50, oral, rat > 2000 mg/kg body weight.
By skin and eye contact:	Causes skin irritation. Not sensitising to the skin.
Additional information: (Mutagenicity)	According to our present state of knowledge not mutagenic.

Further toxicological information

Product(s) of hydrolysis:	According to literature, ethanol (67-17-5) irritates the mucous membranes, slightly irritates the skin, degrades the skin, is narcotic and may cause liver damage.
---------------------------	--

12. Ecological information

Ecotoxicity	Contains biocide so do not pour into drains.
-------------	--

Persistence and degradability

Biodegradation:	Silicone content: Biologically not degradable. The hydrolysis product (Ethanol) is readily biologically degradable.
Further information:	By hydrolysis: Ethanol and silanol- and/or siloxanol- compounds. Elimination by absorption to activated sludge.
Other harmful effects:	None known
General information:	No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

13. Disposal considerations

Material:	Recommendation: Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.
Uncleaned packaging:	Recommendation: Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

Waste Disposal Legislation

Ref.No.(EC): It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

14. Transport information

Land transport ADR and RID

Road ADR:	Valuation: Not regulated for transport
Railway RID:	Valuation: Not regulated for transport
Transport by sea: (IMDG-Code)	Valuation: Not regulated for transport
Air transport: (ICAO-TI/IATA-DGR)	Valuation: Not regulated for transport

15. Regulatory information

National regulations: National and local regulations must be observed. For information on labelling please refer to section 2 of this document.

Chemical safety assessment: A chemical safety assessment has not been carried out for this product.

SI 2002/1689:	CHIP Regulations 2002
SI 2002/2677:	COSHH Regulations 2002
SI 1999/3242:	Management of Health & Safety at Work Regulations 1999 Health & Safety at Work Act 1974
SI 1993/1643:	Environmental Protection Act 1993 & Subsidiary Regulations.

Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

Details of international registration status: Listed on or in accordance with the following inventories: EINECS – Europe, ECL – Korea, ENCS – Japan, AICS – Australia, IECSC – China, DSL – Canada, PICCS – Philippines, TSCA – USA.

16. Other information

Material

The above information describes exclusively the safety requirements of the product(s) and is based on our present day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.