

Date of issue: 05.07.2010 Replaces Data Sheet of:

"***" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available



1 Identification of Substance / Preparation and Company

Identification of Substance or Preparation

Trade Name: Faceal Hydro RF

Use: Impregnation, surface water repellent and corrosion inhibitor for porous building
See product bulletin for detailed information

Company / Undertaking Identification

Address of the Company / Undertaking:

PSS INTERSERVICE Ltd., P.O. Box 315, Poststr. 1, 8954 Geroldswil, Switzerland

Telephone: +41 44 749 24 24, Fax: +41 44 749 24 25

Contact person: Mr. Buchli; eMail: info@pss-technology.com

Responsible:

CHEMCO123 ® – Chemical Consultancy, graduate chemist, R. Fechner, ☎ + 49 5254 9575 05

eMail: info@chemco123.de

Emergency - Telephone

Swiss Toxicological

Information Centre:

Telephone: +41 44 251 51 51

Emergency – Telephone

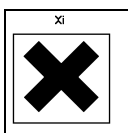
of Company / Undertaking:

Telephone: +41 44 749 24 24

2 Hazards Identification

For Humans:

Classification:



R 38 - Irritating to skin.

Additional advice:

May be irritating to eyes and respiratory system.

For the Environment:

Ecological injuries are not known or expected under normal use. Slightly water endangering.

3 Composition / Information on Ingredients

Chemical Characterisation:

Triethoxyisobutylsilane

Dangerous Ingredients:

CAS - No.	Index - No.	EC - No.	Material	m% - range	Symbol	R - phrases
17980-47-1	014-007-00-1	402-810-3	triethoxyisobutylsilane	> 20 %	Xi	R 38

Remarks:

Classification and labelling of a product is indicated under item 15.

Exposure Controls / Personal Protection under item 8

R -phrase(s) under item 16

4 First Aid Measures

General advice:

Show this safety data sheet to the doctor in attendance.

Inhalation:

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

If symptoms persist, call a physician.

Skin Contact:

Wash off with soap and water. Take off all contaminated clothing immediately.

If skin irritation persists, call a physician.

Eye Contact:

Immediately flush eye(s) with plenty of water.

If eye irritation persists, consult a specialist.

Ingestion:

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Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting.

If symptoms persist, call a physician.

Note to Physician:

Treat symptomatically.

Special Equipment:

None.

5 Fire Fighting Measures

Suitable Extinguishing Media: Foam, powder, carbon dioxide (CO₂).

Extinguishing Media to Avoid: None.

Fire and Explosion Hazards:

Fire may cause to evolve: Carbon oxides.

Additional Information: Cool containers / tanks with water spray.

Special Protective Equipment:

Wear positive pressure self-contained breathing apparatus.

Wear full protective clothing.

6 Accidental Release Measures**Personal Precautions:**

See Personal Protective Equipment.

Ensure adequate ventilation, especially in confined areas. Do not breathe vapours or spray mist.

Slipping hazard.

Environmental Precautions and Methods for Cleaning up:

Do not flush into surface water or sanitary sewer system. Contact the proper local authorities. Soak up with inert absorbent material and dispose of as hazardous waste. Take up mechanically and collect in suitable container for disposal.

Further Information:

Use personal protective equipment.

7 Handling and Storage**Handling****Precautions for Safe Handling:**

Do not breathe vapours or spray mist. Avoid contact with skin and eyes.

After use: Keep container tightly closed and at a temperature not exceeding 30 °C

Precautions in Case of Fire and Explosion:

None.

Storage**Storage Instructions:**

Keep container tightly closed in a dry and well-ventilated place.

Store away from:

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Further Information on Storage Conditions:

Store at room temperature: Conditions to avoid: Temperatures < 0 °C.

Storage Class: 12 (VCI - Concept)

8 Exposure Controls and Personal Protection**Information on System Design:**

Provide personal protective equipment. Use only in well ventilated areas.

Exposure Limits:**CAS / Material**

Limit Value according to TRGS 900/ EC Guideline 2000/39

Personal Protective Equipment**General Protection and Hygiene:**

Do not breathe vapours or spray mist. Avoid contact with skin and eyes.

Take off all contaminated clothing immediately. When using, do not eat, drink or smoke.

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Respiratory Protection: No personal respiratory protective equipment normally required.
In case of insufficient ventilation or in the case of mist wear suitable respiratory equipment.
Respirator with combination filter for vapour/particulate.
Refer to manufacturer/supplier for further information.

Hand Protection:

Excessive exposure: If prolonged skin contact use protective gloves according to EN 374. (nitrile - butylrubber).
Break through time: > 480 Min. Glove thickness: 0,7 mm.

Short time exposure: Gloves according to EN 374. (nitrile - butylrubber).
Break through time: > 30 Min. Glove thickness: 0,4 mm.
Refer to manufacturer of gloves for detailed information.

Eye Protection:

Tightly fitting safety goggles.

Skin Protection:

Lightweight protective clothing.

Further Information:

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9 Physical and Chemical Properties**Appearance****Form:** liquid**Colour:** colourless**Odour:** none**Safety Relevant Data**

pH-value, undiluted: no data available

Boiling point / Boiling - range (°C): ~ 186

Melting point / melting range (°C): ~ -65

Flash point (°C, c.c.): 63

Flammability: no data available

Ignition temperature (°C): no data available

Autoflammability: n.ap.

Oxidising properties: n.ap.

Explosion hazard: n.ap.

Explosion limits (Vol.%) lower: 0,39., upper: 8,47

Vapour pressure: n.ap.

Density (g/ml): 0,88

Solubility (in Water): Hydrolyzes in water (formation of ethanol).

Partition coefficient, n-Octanol/Water: n.av.

Viscosity: n.av.

Solvent separation test: no data available

Solvent content (m %): n.ap.

Fat solubility: n.ap.

Further Data

Thermal decomposition (°C): no data available

Vapour density (Air = 1): no data available

Evaporation rate: no data available

10 Stability and Reactivity**Conditions to Avoid:**

Temperatures below .5 °C, temperatures above 30 °C.

Materials to Avoid:

Keep away from oxidising agents.

Hazardous Decomposition Products:

None under normal use.

Further Information:

Hydrolyzes in water (formation of ethanol).

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Inhalation, LC ₅₀ rat, (mg/l/4h):	n.av.
Ingestion, LD ₅₀ rat, (mg/kg):	n.av.
Skin - contact, LD ₅₀ rat, (mg/kg):	n.av.
Irritation (to skin / eye):	Irritating to skin. May cause eye irritation.
Sensitisation:	n.av.

Subacute / Chronic Toxicity:

Carcinogenicity:	No.
Mutagenicity:	No.
Teratogenicity:	No.
Narcotic Effects:	No.

Practical Experience

Observations relevant for classification:	No.
Further Observations:	No.

General Remarks:

Acute Health Effects: No data is available on triethoxyisobutylsilane.

12 Environmental Information**Elimination (Persistence and Degradability):**

Biodegradable, according to appropriate OECD. 301D (75 %)

Behaviour in Sewage Works:

Mobility and Accumulation Potential:
Does not bioaccumulate.

Ecotoxic Effects, Aquatic Toxicity:

Slightly water endangering.

Other Ecological Information

COD-Value, mg/g:	n.av.
BOD ₅ -Value, mg/g:	n.av.
AOX-Remarks:	Product does not contain any organic halogens.
Persistent, bioaccumulative and toxic substances (PBT-substances):	None
Very persistent and very bioaccumulative substances (vPvB-substances):	None.

13 Disposal Considerations**Residues**

Recommendation: D 10

Waste - Code - No.: 07 07 99 - wastes from the MFSU of fine chemicals and chemical products not otherwise specified

In addition comply with the regional authorities.

Safe Handling: See item 7 and 15.

Contaminated Packaging

Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.

Safe Handling: As described under Residues.

14 Transport Information**Transportation by Road or Railway according to ADR/GGVS and RID/GGVE****Transportation by Vessels according to IMDG/GGVSee****Transportation by Aeroplane according to IATA-DGR/ICAO-TI****Remarks: Not dangerous goods**

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Company / Distributor:

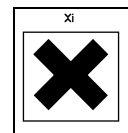
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Classification of the preparation has been done by calculation in accordance with directive 1999/45/EC, regulation (EC) No.1272/2008, Annex VI, CLP00.

Hazard Identification: Xi - Irritant

Hazard Symbol(s):

**R-Phrases:**

R 38 - Irritating to skin.

S-Phrases:

S 24 - Avoid contact with skin.

Further EC – regulations:*Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.*

None.

EC – Directive 1999/13 (VOC) VOC g / kg: None.

16 Other Information**R-phrase(s):**

R 38 - Irritating to skin.

Further information to work out the Data sheet:

MSDS of the producer.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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