

IMPERGUARD RF - 2050

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : IMPERGUARD RF
Product code : 2050.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Protection product Mineral substrates

1.3. Details of the supplier of the safety data sheet

Registered company name : GUARD INDUSTRIE S.A.S..
Address : 7 Rue Gutenberg.93100.Montreuil.France.
Telephone : 0155861760. Fax : 0148581689.
info@guardindustrie.com
www.guardindustrie.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Reacts violently with water (EUH014).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

Mixture for spray application.

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS07

Signal Word :

WARNING

Product identifiers :

EC 402-810-3 TRIETHOXYISOBUTYLSILANE

Additional labeling :

Hazard statements :

H315 Causes skin irritation.

EUH014 Reacts violently with water.

Precautionary statements - Prevention :

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P302 + P352 IF ON SKIN: Wash with plenty of water/soap.

P321 In case of visiting a doctor, show the MSDS.



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P332 + P313

If skin irritation occurs: Get medical advice/attention.

P362 + P364

Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	Note	%
INDEX: GI00079 CAS: 17980-47-1 EC: 402-810-3 TRIETHOXYISOBUTYLSILANE	GHS07 Wng Skin Irrit. 2, H315		100%

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation :

Following inhalation of aerosol or mist : move victims into fresh air. If symptoms persist, consult a physician for treatment.

In the event of splashes or contact with eyes :

In case of persistent discomfort : consult an ophtalmologist

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Specific and immediate treatment :

If required, therapy of irritative effect.

After absorbing large amount of substance : administration of activated charcoal.

Acceleration if gastrointestinal passage.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

In the event of fire, use specifically suitable extinguishing agents. Never use water.



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Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- carbon dioxide (CO₂)

Alcohol resistant foam

Dry powder

Unsuitable methods of extinction

In the event of a fire, do not use :

- water
- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

Water used to extinguish fire should not enter drainage systems, soils, stretches of water.

Ensure there are sufficient retaining facilities for water used to extinguish fire.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

Fill into marked sealable containers.

To be disposed of in compliance with existing regulations.

Suitable binder : sand (for damming up), sawdust, universal absorbent.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Keep containers tightly closed in a cool well-ventilated place.

Protect from moisture.

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Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Never pour water into this mixture.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

Avoid contact with water.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No data available.

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Neoprene® (Polychloroprene)

Recommended properties :

- Impervious gloves in accordance with standard EN374

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded : use respiratory equipment with suitable filter (filter type ABEK) or wear a self contained respiratory apparatus.



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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state : Fluid liquid.

Important health, safety and environmental information

pH : Not relevant.

Boiling point/boiling range : Not specified.

Flash Point : 63.00 °C.

Method for determining the flash point:

ISO 2719 (Determination of flash point - Pensky-Martens closed cup method).

Explosive properties, lower explosivity limit (%) : 0.39%

Explosive properties, upper explosivity limit (%) : 8.47%

Vapour pressure (50°C) : Not relevant.

Density : 0.88 à 20°C

Method for determining the density :

DIN 51757 (Testing of mineral oils and related materials - Determination of density).

Water solubility : Insoluble. Non miscible

Partition coefficient: n-octanol/water : log Pow : 2.033 (mesuré)

Method for determining the partition coefficient n-octanol/water :

N/A

Viscosity: $\nu < 7 \text{ mm}^2/\text{s}$ (40°C)

Melting point/melting range : Not specified.

Self-ignition temperature : Not specified.

Decomposition point/decomposition range : Not specified.

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

This mixture reacts violently with water.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid :

- humidity

Protect from moisture. Reaction with water can cause an exothermic reaction.

Ethanol in case of reaction with water.

10.5. Incompatible materials

Keep away from :

- water

Reacts violently with water.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)



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- carbon dioxide (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

11.1.1. Substances

Acute toxicity :

TRIETHOXYISOBUTYLSILANE (CAS: 17980-47-1)

Oral route : LD₅₀ > 5000 mg/kg
Species : Rat (recommended by the CLP)

Dermal route : 2,000 < LD₅₀ <= 5000 mg/kg
Species : Rat (recommended by the CLP)

Inhalation route (n/a) : LC₅₀ = 5.88 mg/l
Species : Rat (recommended by the CLP)

Skin corrosion/skin irritation :

Rabbit : irritating (OECD Test Guideline 404)

Serious damage to eyes/eye irritation :

Rabbit : not irritating (OECD Test Guideline 405)

Carcinogenicity :

No evidence that cancer may be caused.

11.1.2. Mixture

No toxicological data available for the mixture.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

TRIETHOXYISOBUTYLSILANE (CAS: 17980-47-1)

Fish toxicity : LC₅₀ = 85 mg/l
Species : *Oncorhynchus mykiss*
Duration of exposure : 96 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

TRIETHOXYISOBUTYLSILANE (CAS: 17980-47-1)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

12.2.2. Mixtures

Biodegradability in water : Easily biodegradable.
OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

12.3. Bioaccumulative potential

Not bioaccumulative

12.4. Mobility in soil

Adsorption on the floor : low.



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12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2015).

SECTION 15 : REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 1297/2014.

- Container information:

No data available.

- Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

H315

Causes skin irritation.



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Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.