

Material Safety Data Sheet

Product name: Falcon Urinal Sealant

Version: 01

Effective date: 23/11/2017

Page 1 from 13

1 - Identification

Name of the substance or mixture (trade name): Falcon Urinal Sealant

Internal product identification code: Not applicable

Major recommended uses for the substance or mixture: Urinal Sealant

Company/undertaking identification: Ferrum S.A. de Cerámica y Metalurgia

Address: España 496 (B1870BWJ) Avellaneda, Provincia de Buenos Aires, Argentina

Comercial phone number: (54 11) 4229-6353 Lic. Leonardo M. Irrera

Emergency phone number: CHEMTREC (800) 424-9300

2 - Hazards identification

Classification of the substance or mixture

Physical hazards:

Not classified.

Health hazards:

Respiratory sensitization, Category 1

Environmental hazards:

Not classified.

GHS labeling elements, including precautionary statements

Hazard symbol(s):



Signal word: Danger

Material Safety Data Sheet

Product name: Falcon Urinal Sealant

Version: 01

Effective date: 23/11/2017

Page 2 from 13

Hazard statement(s)**Physical hazards:** Not applicable**Health hazards:**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Environmental hazards: Not applicable**Precautionary statement(s):**

Wear respiratory protection.

Avoid breathing mist/vapors.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Dispose of contents/container to suitable location.

Other hazards which do not result in classification: None known.**3 – Composition and information on ingredients****Mixtures****Ingredients or impurities contributing to hazard**

Chemical name	CAS number	Concentration (%)
Citronella Oil	8000-29-1	0.25

The ingredients listed above, refer to the harmful ingredients that meet the cut-off values/concentration limits for each hazard class for health and the environment, established by standard IRAM 41400.

4 - First aid measures**First-aid measures**

- **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Material Safety Data Sheet

Product name: Falcon Urinal Sealant

Version: 01

Effective date: 23/11/2017

Page 3 from 13

- **Skin contact:** In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. If skin irritation or rash occurs: Get medical advice/attention
- **Eye contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Call a physician if you feel unwell.

Most important symptoms/effects, acute and delayed: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Personal protection for first-aid responders: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

Notes to physician: Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5 - Fire-fighting measures

Means of fire extinguishing

- **Suitable extinguishing media:** Water fog, foam, dry chemical and Carbon dioxide (CO₂).
- **Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: In case of fire harmful gases may be released as carbon oxides and irritating gases.

Special methods for fire fighting: Use standard firefighting procedures and consider the hazards of other involved materials.

Protective measures taken by firefighting crews: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Material Safety Data Sheet

Product name: Falcon Urinal Sealant

Version: 01

Effective date: 23/11/2017

Page 4 from 13

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards: This product is not flammable.

6 - Control measures for spills and leaks

Personal precautions, protective equipment and emergency procedures

- **To be taken by those who are not involved in rendering emergency services:** Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the MSDS.
- **To be taken by those who are involved in rendering emergency services:** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS. It is recommended the installation of a fire alarm system and leak detection at the storage and use of the product.

Environmental precautions: Avoid release to the environment. Avoid discharge into drains, watercourses or onto the ground.

Methods and materials for containment and cleaning up

Use water fog or vapor suppressing foam to reduce the dispersion of vapors. Use natural or spill containment barriers. Collect spilled product and place in proper containers. Adsorb remaining product with dry sand, earth, vermiculite, or any other inert material. Place the adsorbed material in suitable containers and remove them to a safe place. For disposal, refer to section 13 of the MSDS.

Other issues relating to spills and releases

Cleaning in accordance with applicable regulations. Isolate spill or leak in a radius of 50 meters at least, in all directions. Ventilate area, use specified protective equipment. Avoid heat, sparks, open flames and other ignition sources. Place in waste disposal container.

Material Safety Data Sheet

Product name: Falcon Urinal Sealant

Version: 01

Effective date: 23/11/2017

Page 5 from 13

7 - Handling and storage

Precautions for safe handling

Follow the good industrial hygiene practices. It is forbidden eating, drinking or smoking in the working areas. Remove clothing and protective equipment contaminated before entering eating areas. Wash hands after handling and before eating. Wear personal protective equipment. Take care to keep the work place clean. Do not leave container open. Avoid spilling. All containers containing this product must be labeled. Avoid direct contact in handling the product. Use chemically compatible packaging.

Conditions for safe storage, including any incompatibilities

Reasonable and safe chemical storage.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep away from food, including animals.
Keep away from incompatible materials (see section 10 of the MSDS).

8 - Exposure controls/personal protection

Control parameters

Occupational exposure limits: No occupational exposure limits noted for the ingredient(s).

Biological limit values: No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls:

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal protective measures:

- **Eyes and face protection:** Wear safety glasses with side shields or goggles.
- **Skin protection**
 - **Hand protection:** Wear appropriate chemical resistant gloves.

Material Safety Data Sheet

Product name: Falcon Urinal Sealant

Version: 01

Effective date: 23/11/2017

Page 6 from 13

- **Other:** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
- **Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Respiratory protection: filter for vapors and mists.

Precept label



Use safety goggles



Wear safety gloves



Use respiratory protection



Wear chemical resistant clothing

- **Thermal hazards:** It is not expected thermal hazards.

Hygiene measures:

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and

Material Safety Data Sheet

Product name: Falcon Urinal Sealant

Version: 01

Effective date: 23/11/2017

Page 7 from 13

protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Do not eat, drink or smoke when using the product.

9 - Physical and chemical properties

Appearance (physical state, form and color): Oily liquid, deep blue

Odor and odor threshold: Citronella/lemon

pH: Not available

Melting point/freezing point: Not available

Initial boiling point and boiling temperature range: Not available

Flash point: Not available

Evaporation rate: Not available

Flammability (solid, gas): Not applicable

Upper/lower flammability or explosive limits: Not available

Vapor pressure: Not available

Vapor density: Not available

Relative density: 0.836 (20°C)

Solubility (water): Not available

Partition coeficiente (n-octanol/water): Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: 60 mPa.s (20°C)

Material Safety Data Sheet

Product name: Falcon Urinal Sealant

Version: 01

Effective date: 23/11/2017

Page 8 from 13

10 - Stability and reactivity**Reactivity:** No dangerous reaction known under conditions of normal use.**Chemical stability:** Stable under normal storage conditions.**Possibility of hazardous reactions:** No dangerous reaction known under conditions of normal use.**Conditions to avoid:** Avoid high temperatures and contact with incompatible materials.**Incompatible materials:** Strong oxidizing agents.**Hazardous decomposition products:** Oxides of carbon.**11 - Toxicological information****Information on likely routes of exposure****Ingestion:** May cause stomach distress, nausea or vomiting.**Inhalation:** May cause breathing difficulties if inhaled.**Skin contact:** Not classified.**Acute toxicity:** Not classified.

Product	Species	Test Results
Falcon Urinal Sealant	Rat	Oral (LD50) > 5000 mg/kg

Components	Species	Test Results
Citronella Oil	Rat	Oral (LD50) > 5000 mg/kg
	Rabbit	Dermal (LD50) > 2500mg/kg

Skin irritation and corrosion: Not classified.**Serious eye damage/eye irritation:** Not classified.

Material Safety Data Sheet

Product name: Falcon Urinal Sealant

Version: 01

Effective date: 23/11/2017

Page 9 from 13

Respiratory or skin sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Toxic to reproduction: Not classified.

Specific target organ toxicity - single exposure: May cause stomach distress, nausea or vomiting.

Specific target organ toxicity - repeated exposure: Not classified.

Aspiration hazard: Not classified.

Chronic effects: Prolonged inhalation may be harmful.

12 - Ecological information

Ecotoxicity: Not classified.

Persistence and degradability: Due to the concentration of the ingredients, it is expected that the product is non-persistent and readily degradable.

Components	Persistence and degradability
Citronella Oil	83% biodegradation in 4 weeks

Bioaccumulative potential

Bioconcentration factor (BCF): Bioaccumulative potential is not expected in aquatic organisms due to the concentration of the ingredients in this product.

Components	BCF
Citronella Oil	160

Partition coefficient n-octanol/water (log Kow): Bioaccumulative potential is not expected in aquatic organisms due to the concentration of the ingredients in this product.

Material Safety Data Sheet

Product name: Falcon Urinal Sealant

Version: 01

Effective date: 23/11/2017

Page 10 from 13

Components	Log kow
Citronella Oil	3.83

Mobility in soil: Not determined.

Components	Koc
Citronella Oil	650

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13 - Considerations on final disposal**Recommended methods for final destination**

Residual waste: Dispose of in accordance with local regulations.

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Avoid discharge into watercourses or onto the ground. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Local disposal regulations: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

14 - Transport information**Ground transport**

Not regulated as Dangerous Goods.

Material Safety Data Sheet

Product name: Falcon Urinal Sealant

Version: 01

Effective date: 23/11/2017

Page 11 from 13

Maritime transport

Not regulated as Dangerous Goods.

Air transport

Not regulated as Dangerous Goods.

15 - Regulatory information

Federal (Argentinean) regulations

Chemicals - Information about safety, health and environment

- Argentinean Standard IRAM 41400 valid in the date of its revision.

Argentinean Ground transport:

- *Resolution ST N° 195/97*

International regulations

Multimodal transport:

- *Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria* (“Orange Book”).

Maritime transport:

- IMO - *International Maritime Organization - International Maritime Dangerous Goods Code* (IMDG Code).

Air transport:

- ICAO - *International Civil Aviation Organization - Doc 9284-NA/905*;
- IATA - *International Air Transport Association Dangerous Goods Regulation* (DGR).

Material Safety Data Sheet

Product name: Falcon Urinal Sealant

Version: 01

Effective date: 23/11/2017

Page 12 from 13

16 - Additional information

Significant information, yet not specifically related to the previous sections

This MSDS was prepared based on current knowledge of the product and provides information on the protection, safety, health and the environment.

This document was updated on Nov 23rd, 2017 - Reason: Change of composition according to the supplier.

The MSDS does not take into account all situations that may occur in a work environment, is only part of the information necessary for the preparation of a health, safety and environmental program.

This document was created by a 3rd party service that has advertised to SDSpro, LLC (SDSpro) specialized regulatory knowledge and capabilities in the region(s) where this document is stated to be compliant. We believe the statements, technical information, translations and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. In the event that there is a dispute regarding the document's compliance or content SDSpro will endeavour to provide all reasonable assistance to remedy the problem. It is ultimately the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

Legends and abbreviations:

BCF: Bioconcentration factor

EC50: Effective concentration 50%

LC50: Lethal concentration 50%

LD50: Lethal dose 50%

IARC: International Agency for Research on Cancer

OSHA: Occupational Safety and Health Administration

UN: United Nations

Material Safety Data Sheet

Product name: Falcon Urinal Sealant

Version: 01

Effective date: 23/11/2017

Page 13 from 13

USA: United States of America

vol. = volume

References:

1. PubChem - Open Chemistry Database;
2. Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA) GESTIS Substance Database;
3. GESTIS International Limit Values;
4. ECHA - European Chemicals Agency;
5. Argentinean Standard IRAM 41400 valid in the date of its revision
6. *Resolution ST N° 195/97*
7. Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria (“Orange Book”);
8. IMO - International Maritime Organization - Maritime Dangerous Goods Code (IMDG Code);
9. IATA - International Air Transport Association - Dangerous Goods Regulation (DGR).