

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

ROCKSTAR ANTI-SLIP

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MANUFACTURED BY: Rockstar Sealing Systems, 3 Spray Avenue Mordialloc,
VIC 3195, Australia Tel. +61 1300 88 44 18

Product Use: Anti-slip treatment for stone and tile surfaces.

2. HAZARDS IDENTIFICATION

Classified as **Hazardous** according to criteria of Safe Work Australia and **Dangerous Goods** according to the ADG Code. This material is classified as corrosive (c) and harmful (xn) according to the criteria of Worksafe Australia.

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R34 - Causes burns.

R41 - Risk of serious damage to eyes.

R43 - May cause sensitisation by skin contact.

S7/9 - Keep container tightly closed and in a well ventilated place.

S23 - Do not breathe vapour.

S26 - In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or poisons information centre.

S27 - Take off immediately all contaminated clothing.

S28 - After contact with skin, wash immediately under running water for 15 minutes, and then apply calcium gluconate gel. Seek immediate medical advice (show label whenever possible).

S37/39 - Wear suitable gloves and eye/face protection.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.)

UN NO.....:	2922	D.G. Class.:	8	Pack. Group...:	II
HAZCHEM:	2X	SUB. RISK.:	6.1	SUSDP	6

PROPER SHIPPING NAME: Corrosive Liquids N.O.S. (Contains 6.8% W/W Nitric Acid And 6% W/W Ammonium Bifluoride)

HEALTH EFFECTS:**ACUTE:**

- Ingestion - Harmful if swallowed. This material will cause burns to the mouth, oesophagus and gastrointestinal tract.
- Skin - Contact with skin may result in painful burns which may not become evident until some time after exposure. May cause skin sensitisation.
- Eyes - Liquid contact with the eyes can cause severe burns which may result in serious eye damage or even blindness.
- Inhalation - Inhalation of vapour or mist may cause ulcers of the upper respiratory tract.
- Chronic - Skin burns are slow to heal after penetration of the epidermis. Corrosive fluorides can attack bone calcium through the skin and cause intense pain. As with any industrial chemical, ingestion, inhalation of vapour or mist, prolonged or repeated skin contact should be avoided by good standards of industrial hygiene.

3. COMPOSITION/INFORMATION ON INGREDIENTS

No	Component	CAS No	Weight %
1	Nitric Acid	7697-37-2.	6.8%
2	Ammonium Bifluoride	1341-49-7	6%
3	Other ingredients determined not to be hazardous or below their cut-off limits.		87%

4. FIRST AID MEASURES

- Ingestion - If swallowed, rinse mouth with water. **Do not induce** vomiting. Seek immediate medical attention or contact a poisons information centre (phone: 13 11 26).
- Skin - If skin contact occurs, immediately remove all contaminated clothing, including shoes. Wash skin under running water for about 15 minutes, then apply calcium gluconate gel into affected areas. If gel is not available, continue washing with water. Seek immediate medical attention.
- Eyes - Immediately hold eyes open and wash continuously with water for at least 15 minutes. Seek immediate medical attention.
- Inhalation - Remove from exposure - avoid becoming a casualty. For all but the most minor symptoms, arrange for patient to be seen by a doctor as soon as possible, either on site or at the nearest hospital.

ADVICE TO DOCTOR:

Treat symptomatically, as for corrosive fluoride compounds, noting that burns may not become apparent until several hours after exposure.

5. FIRE FIGHTING MEASURES

FIRE/EXPLOSION HAZARD: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

SPECIAL PROTECTION PROCEDURES: Non combustible. If product involved in fire, then firefighters must be warned of corrosive nature of material. Wear chemical splash suit and self contained breathing apparatus. Keep containers cool to minimize further rupture. If exposed to fire and there is spillage, treat spillage with soda ash or lime first.

UNUSUAL FIRE AND EXPLOSION HAZARDS: In contact with metals, may generate hydrogen, a flammable gas. Under fire conditions, capable of generating highly toxic and corrosive fumes of hydrogen fluoride and nitric oxide.

EXTINGUISHING MEDIA: Use extinguishing media suited to the burning materials.

6. ACCIDENTAL RELEASE MEASURES

SPILLS AND DISPOSAL:

SPILLS : Wear protective pvc gloves, chemical goggles and waterproof boots. Contain and collect spillage with absorbent materials (e.g. sand, earth, vermiculite). Transfer to sealed containers suitable for storing spilled material. Clean and flush areas in contact with spilled material with adequate water to render the area safe for human contact.

Wash down waters may still contain residues which require treatment through local effluent treatment plant.

Do not allow to drain or watercourse.

Dispose of solid residues in chemical waste disposal area in accordance with relevant state and federal requirements.

DISPOSAL: Refer to state land waste management authority. Empty containers must be decontaminated. Use dilute soda ash or lime to neutralize to ph 7-8 before disposing of by landfilling. The particular circumstances should be discussed with the relevant authority.

CONTAINERS: Containers should be drained and triple rinsed with fresh water prior to disposal to drum reconditioner or approved landfill site.

7. HANDLING AND STORAGE

HANDLING: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

STORAGE: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Keep containers of this product in a well ventilated area. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10.

8. PERSONAL PROTECTION AND EXPOSURE CONTROLS

The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Exposure Limits	TWA (mg/m3)	STEL (mg/m3)
Ammonium bifluoride	2.5	not set
Nitric acid	2	4

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: This product should only be used where there is ventilation that is adequate to keep exposure below the TWA levels. If necessary, use a fan.

Eye Protection: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber, PVC.

Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Otherwise, not normally necessary.

Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour	Colourless to slightly yellow aqueous liquid.
State	Liquid
Odour Characteristic	Sharp
pH	2
Viscosity	Not specified
Specific Gravity (Water = 1)	Approx 1 g/ml
Vapour Density (Air = 1)	N/A
Vapour Pressure	N/A
Melting Point	N/A
Boiling Point	100°C
Solubility in Water	completely miscible at 20 °C
Ignition Temperature	N/A
Upper Explosion Limit	Not Determined
Lower Explosion Limit	Not Determined
Flash Point	N/A

10. STABILITY AND REACTIVITY

REACTIVITY: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

CONDITIONS TO AVOID: Keep containers and surrounding areas well ventilated.

INCOMPATIBILITIES: Bases, zinc, tin, aluminium and their alloys, glass, ceramic surfaces.

FIRE DECOMPOSITION: No significant quantities of decomposition products are expected at temperatures normally achieved in a fire.

POLYMERISATION: This product will not undergo polymerisation reactions.

11. TOXICOLOGICAL INFORMATION

Local Effects:

Target Organs: skin, eyes

Classification of Hazardous Ingredients

Ingredient Risk Phrases

Ammonium Bifluoride $\geq 1\% \text{Conc} < 10\%$: C; R34; R22

Nitric Acid $\geq 5\% \text{Conc} < 20\%$: C; R34

12. ECOLOGICAL INFORMATION

This product is unlikely to adversely effect the environment. Salts, acids and bases are typically diluted and neutralised when released to the environment in small quantities.

13. DISPOSAL CONSIDERATIONS

DISPOSAL: There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. The Hierarchy of Controls seems to be common - the user should investigate: Reduce, Reuse, and Recycle and only if all else fails should disposal be considered. Note that properties of a product may change in use, so that the following suggestions may not always be appropriate. The following may help you in properly addressing this matter for this product. This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to separate the contamination in some way. Only if neither of these options is suitable, consider landfill.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods according to the Australian Code For The Transport of Dangerous Goods By Road And Rail (Seventh Edition). See section 1.

15. REGULATORY INFORMATION

Labelling Requirements According to Criteria of NOHSC:

Risk Phrases:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

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15. **REGULATORY INFORMATION (Cont.)**

Safety Phrases:

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National regulations:

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) Australia:

Poisons Schedule number: 6

16. **OTHER INFORMATION**

¹ Australian Code For The Transport Of Dangerous Goods By Road And Rail (Seventh Edition).

The advice and information contained herein is based on our best knowledge of the health and safety hazard information of the product. We believe the information to be accurate and reliable as at the date supplied, but no representation, guarantee or warranty, expressed or implied, is made to the accuracy, reliability, or completeness of the advice and information. We urge persons receiving this advice and information to make their own determination as to the advice and information's suitability and completeness for their own particular situation.