

Revision nr. : 3

Date issued: 03-10-2007

Supersedes date: 12-04-2008

## 1. Identification of the substance/preparation and company

Product name	Step 2		
Application	Anti Slip Product		
Product code	2 ED 157-1		
Supplier	FSI Int. BV	Tel.	: +31- (0)79-3434670
	Edisonstraat 15	Fax	: +31- (0)79-3434114
	2723 RS Zoetermeer		
	The Netherlands		
Emergency phone nr.	+31- (0)79-3434670		

## 2. Hazards identification of the preparation

Hazards identification Corrosive

## 3. Composition / information on ingredients

This product is considered to be hazardous and contains hazardous components.

Substance/Preparation : Preparation

Components dangerous for health or environment Guideline 67/548/EEC

<u>Ingredients</u>	<u>Einecs nr.</u>	<u>CAS nr.</u>	<u>Weight(%)</u>	<u>Classification</u>	<u>Risk phrases*</u>
Ammonium hydrogen difluoride	215-676-4	1341-49-7	1 - 5	T,C	25-34
Phosphoric acid	231-633-2	7664-38-2	1 - 5	C	34

See section 16 for mentioned R-phrases.

Attention: The information in this chapter is applicable to the undiluted product

## 4. First aid measures

Inhalation	Remove patient to fresh air. Obtain medical attention if breathing difficulty persists.
Skin	Wash with plenty of water. If irritation persists, get medical attention.
Eyes	Flush eyes with plenty of water for at least 15 minutes, get medical attention.
Ingestion	Do not induce vomiting, rinse mouth with water and get medical attention immediately.

## 5. Fire-fighting measures

Extinguishing media	Not combustible. No special requirements.
Specific hazards	Corrosive vapours.

## 6. Accidental release measures

Personal protection	Use appropriate protective equipment as described in section 8
Spill control	Absorb with sawdust, OIL-DRI or other inert material. Sweep or scrape up. Rinse affected area with water.
Environmental protection	Do not allow material to enter drains, water sources or flow onto open soil.

## 7. Handling and storage

---

Handling	Wear suitable protective clothing as described in section 8. Wash thoroughly after handling.
Storage	Cool, dry place with adequate ventilation. Keep out of reach of children.
Materials to avoid	See "materials to avoid" under heading "Stability and reactivity"

## 8. Exposure controls / personal protection

Exposure controls	Ammonium hydrogen difluoride: MAC value (short period) 3,5mg/m <sup>3</sup> (F)
Protective equipment	
Respiratory	When vapour or gas concentration is high: wear gasmask.
Hands / skin	Wear rubber gloves.
Eyes	Wear eye/face protection
General	Launder contaminated clothing before reuse.

## 9. Physical and chemical properties

Physical state	Liquid.
Colour	Orange
Odour	Almond
pH	3,0
Boiling point / range	Not determined
Melting point / range	Not determined
Flash point	Not applicable
Auto-flammability	Not applicable
Relative density	1,04 g/cm <sup>3</sup>
Solubility in water	Complete
Solubility in oil	Not determined
Viscosity at 20 C	< 30 mPa.s

## 10. Stability and reactivity

Stability	Stable.
Materials to avoid	Alkaline materials and strong acids
Hazardous decomposition products	Not determined.

## 11. Toxicology information

Oral LD50 (rat):	> 2g/kg
Inhalation LC 50 (rat)	1,0 – 5,0 mg/L
Skin	> 2g/kg
Eye	Corrosive

## 12. Ecological information

Mobility	Product is soluble in water
Persistence – degradability	The surfactants are biodegradable for more than 90% according to the OECD test
WGK class (Ge)	Water hazard class 1 : slightly hazardous for water
General evaluation method (NL)	Water hazard class 11 - Sanitizing effort B

## 13. Disposal considerations

Material disposal:	Dispose of according to local environmental controls.
Container disposal:	Dispose of according to local environmental controls.

## 14. Transport information

ADR / RID	
-UN nr	3264
-Class	8
-Packing group	II
-Labelling ADR	Corrosive
-Warning panel	80
-Proper shipping name	CORROSIVE LIQUID, ACIDIC INORGANIC, N.O.S. (Ammonium hydrogen fluoride, phosphoric acid) 8, II.
Limited Quantity	LQ 22
	Combination packaging :
	- per inner packaging: maximum net quantity : 1 litre
	- per package : maximum net quantity : 30 kg.
	Inner packaging's placed in shrink-wrapped or stretched trays
	- per inner packaging: maximum net quantity : 500 ml
	- per package : maximum net quantity : 20 kg.

## 15. Regulatory information

EC-Directive 67/548	
Classification	Corrosive
Contains	Ammonium hydrogen difluoride
Symbol:	C
R phrases:	34 Causes burns
S phrases:	1/2 Keep locked up and out of the reach of children.
	45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible.)
	26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

## 16. Other information

The contents and format of this MSDS are in accordance with regulation (EC) no. 1907/2006 of the European Parliament and Council of 18 December 2006 concerning the registration, evaluation, authorisation and restriction of Chemicals (REACH).

**DISCLAIMER OF LIABILITY** The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.