

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name : Descale Plus  
 Substance name : Sulfamic Acid  
 Index-No. : 016-026-00-0  
 CAS-No. : 5329-14-6  
 EC-No. : 226-218-8  
 Registration number : 01-2119488633-28-xxxx

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

Use of the Substance/Mixture : Descaling Powder  
 They will be included in this safety data sheet when available.

Uses advised against : At this moment we have not identified any uses advised against

### 1.3. Details of the supplier of the safety data sheet

Company Name: Gannon Chemicals Ltd  
 Ballindine, Claremorris  
 Co. Mayo. Ireland

Email address of SDS author: paul@gannonchemicals.ie  
 Emergency Phone Number: 094 9364011 DAY (Mon – Fri 9am to 5.30pm)

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Serious eye damage/eye irritation	Category 2	---	H319

Skin corrosion/irritation	Category 2	---	H315
Chronic aquatic toxicity	Category 3	---	H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC or 1999/45/EC	
Hazard symbol / Category of danger	Risk phrases
Irritant (Xi)	R36/38
	R52, R53


For the full text of the R-phrases mentioned in this Section, see Section 16.

#### Most important adverse effects

- Human Health : See section 11 for toxicological information.
- Physical and chemical hazards : See section 9 for physicochemical information.
- Potential environmental effects : See section 12 for environmental information.

## 2.2. Label elements

### Labelling according to Regulation (EC) No 1272/2008

- Hazard symbols : 
- Signal word : Warning
- Hazard statements : H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements
- Prevention : P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P273 Avoid release to the environment.
- Response : P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/

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

Disposal : P501 Dispose of contents/ container to an approved waste disposal plant.

#### Hazardous components which must be listed on the label:

- sulphamidic acid

#### 2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

### Section 3: Composition/information on ingredients

#### 3.1. Substances

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
<b>Sulfamic Acid</b>				
Index-No. : 016-026-00-0	>= 99	Eye Irrit.2	H319	Irritant; Xi; R36/38 R52-R53
CAS-No. : 5329-14-6		Skin Irrit.2	H315	
EC-No. : 226-218-8		Aquatic Chronic3	H412	
Registration : 01-2119488633-28-xxxx				

For the full text of the R-phrases mentioned in this Section, see Section 16.  
 For the full text of the H-Statements mentioned in this Section, see Section 16.

### Section 4: First aid measures

#### 4.1. Description of first aid measures

General advice : Remove from exposure, lie down. Remove to fresh air. Take off contaminated clothing and shoes immediately. Consult a physician.

If inhaled : Remove to fresh air. Give oxygen. Consult a physician.

In case of skin contact : Wash off immediately with soap and plenty of water. Obtain medical attention.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Consult a physician.

If swallowed : Clean mouth with water and drink afterwards plenty of water. Call a physician immediately. Do not induce vomiting without medical advice.

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

Symptoms : See Section 11 for more detailed information on health effects and symptoms.

Effects : See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically.  
No further information available.

**Section 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

Unsuitable extinguishing media : No information available.

**5.2. Special hazards arising from the substance or mixture**

Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as: Sulphur oxides, nitrogen oxides (NO<sub>x</sub>), Ammonia

**5.3. Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**Section 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment. Keep people away from and upwind of spill/leak. Avoid dust formation. Provide adequate ventilation. Avoid contact with skin and eyes. For personal protection see section 8.

**6.2. Environmental precautions**

Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3. Methods and materials for containment and cleaning up**

Methods and materials for : Use mechanical handling equipment. Dispose of in  
containment and cleaning accordance with local regulations.  
up

Further information : Treat recovered material as described in the section "Disposal  
considerations".

**6.4. Reference to other sections**

See Section 1 for emergency contact information.  
See Section 8 for information on personal protective equipment.  
See Section 13 for waste treatment information.

**Section 7: Handling and storage****7.1. Precautions for safe handling**

Advice on safe handling : Keep container tightly closed. Avoid dust formation. Provide  
appropriate exhaust ventilation at places where dust is formed.  
Emergency eye wash fountains and emergency showers  
should be available in the immediate vicinity. Remove all  
sources of ignition. Do not smoke.

Hygiene measures : Take off all contaminated clothing immediately. Do not breathe  
dust or spray mist. Avoid contact with the skin and the eyes.  
Keep away from food, drink and animal feedingstuffs. Smoking,  
eating and drinking should be prohibited in the application area.  
Wash hands before breaks and at the end of workday.

**7.2. Conditions for safe storage, including any incompatibilities**

Advice on protection : Gives off hydrogen by reaction with metals. Risk of explosion.  
against fire and explosion

Further information on : Keep tightly closed in a dry and cool place. Keep away from  
storage conditions direct sunlight. Keep away from sources of ignition - No  
smoking.

German storage class : 8B: Non-combustible substances, corrosive

**7.3. Specific end use(s)**

Specific use(s) : No information available.

**Section 8: Exposure controls/personal protection****8.1. Control parameters**

**Other Occupational Exposure Limit Values**

(Additional) Information : Contains no substances with occupational exposure limit values.  
Contains no substances with occupational exposure limit values.

## 8.2. Exposure controls

### Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

### Personal protective equipment

#### *Respiratory protection*

Advice : Dust-mask

#### *Hand protection*

Advice : Wear suitable gloves.  
The following information applies to aqueous, saturated solutions.  
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).  
Protective gloves should be replaced at first signs of wear.

Material : natural rubber  
Break through time : > 8 h  
Glove thickness : 0.5 mm

Material : polychloroprene  
Break through time : > 8 h  
Glove thickness : 0.5 mm

#### *Eye protection*

Advice : Tightly fitting safety goggles

#### *Skin and body protection*

Advice : Use protective skin cream before handling the product.  
Wear suitable protective clothing.

### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form : solid

Colour	:	white
Odour	:	odourless
Odour Threshold	:	no data available
pH	:	ca. 1.2 (10 g/l; 20 °C)
Melting point/range	:	ca. 190 °C
Boiling point/boiling range	:	> 200 °C (1013 hPa)
Flash point	:	not applicable
Evaporation rate	:	no data available
Flammability (solid, gas)	:	does not ignite
Upper explosion limit	:	not determined
Lower explosion limit	:	not determined
Vapour pressure	:	not determined
Relative vapor density	:	no data available
Density	:	2.1 g/cm <sup>3</sup> (20 °C)
Water solubility	:	213 g/l (20 °C)
Partition coefficient: n-octanol/water	:	log Kow 0.1
Auto-ignition temperature	:	not applicable
Thermal decomposition	:	209 °C
Viscosity, dynamic	:	not determined
Explosive properties	:	EU legislation: not determined
Explosivity	:	Product is not explosive.
Oxidizing properties	:	no data available

**9.2. Other information**

Bulk density	:	1,000 - 1,300 kg/m <sup>3</sup> (20 °C)
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**Section 10: Stability and reactivity**

**10.1. Reactivity**

Advice : Stable under recommended storage conditions.

**10.2. Chemical stability**

Advice : Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions : Incompatible with oxidizing agents. Hydrogen, by reaction with metals

**10.4. Conditions to avoid**

Thermal decomposition : 209 °C

**10.5. Incompatible materials**

Materials to avoid : No information available.

**10.6. Hazardous decomposition products**

Hazardous decomposition : nitrous gases, Ammonia, Sulphur oxides products

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

**Oral**

Please find this information in the listing of the component/components below in the MSDS.

**Inhalation**

Please find this information in the listing of the component/components below in the MSDS.

**Dermal**

Please find this information in the listing of the component/components below in the MSDS.

**Irritation**

**Skin**

Result : Please find this information in the listing of the component/components below in the MSDS.



**Eyes**

Result : Please find this information in the listing of the component/components below in the MSDS.

**Sensitisation**

Result : Please find this information in the listing of the component/components below in the MSDS.

**CMR effects****CMR Properties**

Carcinogenicity : Please find this information in the listing of the component/components below in the MSDS.

Mutagenicity : Please find this information in the listing of the component/components below in the MSDS.

Teratogenicity : Please find this information in the listing of the component/components below in the MSDS.

Reproductive toxicity : Please find this information in the listing of the component/components below in the MSDS.

**Specific Target Organ Toxicity****Single exposure**

remark : Please find this information in the listing of the component/components below in the MSDS.

**Repeated exposure**

remark : Please find this information in the listing of the component/components below in the MSDS.

**Other toxic properties****Aspiration hazard**

Please find this information in the listing of the component/components below in the MSDS.

**Further information**

Other relevant toxicity information : All numerical values for acute toxicity are calculated on the pure substances.

<b>Component:</b>	<b>sulphamidic acid</b>	<b>CAS-No.</b>
		<b>5329-14-6</b>

**Acute toxicity**
**Oral**

LD50 : 3160 mg/kg (rat)

**Irritation**
**Skin**

Result : Irritating to skin. (rabbit) (OECD Test Guideline 404)

**Eyes**

Result : Severe eye irritation (rabbit) (OECD Test Guideline 405)  
Risk of serious damage to eyes.

**Sensitisation**

Result : Did not cause sensitization on laboratory animals.

**Section 12: Ecological information**
**12.1. Toxicity**

<b>Component:</b>	<b>sulphamidic acid</b>	<b>CAS-No.</b>
		<b>5329-14-6</b>

**Acute toxicity**
**Fish**

LC50 : 70.3 mg/l (Pimephales promelas; 96 h)

**Toxicity to daphnia and other aquatic invertebrates**

no data available

**12.2. Persistence and degradability**

<b>Component:</b>	<b>sulphamidic acid</b>	<b>CAS-No.</b>
		<b>5329-14-6</b>

**Persistence and degradability**

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**Persistence**


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 Result : no data available
 

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**Biodegradability**


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 Result : The methods for determining biodegradability are not applicable to inorganic substances.
 

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**12.3. Bioaccumulative potential**

<b>Component:</b>	<b>sulphamidic acid</b>	<b>CAS-No.</b>
		<b>5329-14-6</b>

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**Bioaccumulation**


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 Result : Bioaccumulation is not expected.
 

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**12.4. Mobility in soil**

<b>Component:</b>	<b>sulphamidic acid</b>	<b>CAS-No.</b>
		<b>5329-14-6</b>

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**Mobility**


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 : no data available
 

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**12.5. Results of PBT and vPvB assessment**
**12.6. Other adverse effects**


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**Additional ecological information**


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 Result : All numerical values for ecotoxicity effects are calculated on the pure substances.  
 Does not cause biological oxygen deficit.  
 Use neutralizing agent.  
 Do not flush into surface water or sanitary sewer system.  
 Harmful to aquatic life with long lasting effects.
 

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**Section 13: Disposal considerations**
**13.1. Waste treatment methods**

 Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains.
 

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Contaminated packaging : Dispose of as unused product. Dispose of in accordance with local regulations.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

## Section 14: Transport information

### 14.1. UN number

2967

### 14.2. UN proper shipping name

ADR : SULFAMIC ACID  
RID : SULFAMIC ACID  
IMDG : SULFAMIC ACID

### 14.3. Transport hazard class(es)

ADR-Class : 8  
(Labels; Classification Code; Hazard identification No; Tunnel restriction code) 8: C2: 80: (E)  
RID-Class : 8  
(Labels; Classification Code; Hazard identification No) 8: C2: 80  
IMDG-Class : 8  
(Labels; EmS) 8; F-A, S-B

### 14.4. Packaging group

ADR : III  
RID : III  
IMDG : III

### 14.5. Environmental hazards

Labeling according to 5.2.1.8 ADR : no  
Labeling according to 5.2.1.8 RID : no  
Labeling according to 5.2.1.6.3 IMDG : no  
Classification as environmentally hazardous according to 2.9.3 IMDG : no  
Classified as "P" according to 2.10 IMDG : no

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

**Section 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Notification status****Sulfamic Acid:**

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
INV (CN)	YES	
ENCS (JP)	YES	(1)-402
ISHL (JP)	YES	(1)-402
TSCA	YES	
EINECS	YES	226-218-8
KECI (KR)	YES	KE-32336
PICCS (PH)	YES	

**15.2. Chemical Safety Assessment**

no data available

**Section 16: Other information****Full text of R-phrases referred to under sections 2 and 3.**

R36/38	Irritating to eyes and skin.
R52	Harmful to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

**Full text of H-Statements referred to under sections 2 and 3.**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

**Further information**

Other information: The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

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Author: Paul Gannon