



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II and Regulation (EC) No. 1272/2008 (CLP)

# SAFETY DATA SHEET

DS-3 2kg

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

### 1.1 Product identifier

**Product name** : DS-3 2kg  
**Product code** : 61027  
**Product description** : Not available.  
**Product type** : Solid.

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

Restricted to professional users.

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

: **Alpha, Alent plc**  
**Forsyth Road**  
**Sheerwater**  
**Woking**  
**Surrey**  
**England**  
**GU21 5RZ**  
**Tel: +44(0)1483 758400**  
**Fax: +44(0)1483 728837**

#### Manufacturer

: Alpha, Alent plc  
Forsyth Road  
Sheerwater  
Woking  
Surrey  
England  
GU21 5RZ  
Tel: +44(0)1483 758400  
Fax: +44(0)1483 728837

**Contact person** : europeanregulatory@alent.com

**Emergency phone:** +44 1483 758400

**Material uses** : Water-conditioning agent.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Aquatic Chronic 3, H412

**Ingredients of unknown toxicity** : Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 4.9%

**Ingredients of unknown ecotoxicity** : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.9%

Classification according to Directive 1999/45/EC [DPD]

Europe

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## SECTION 2: Hazards identification

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Xi; R36/38  
R52/53

**Human health hazards** : Irritating to eyes and skin.

**Environmental hazards** : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R phrases or H statements declared above.

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

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : Causes serious eye irritation.  
Causes skin irritation.  
Harmful to aquatic life with long lasting effects.

### Precautionary statements

**Prevention** : Wear protective gloves: < 1 hour (breakthrough time): disposable vinyl. Wear eye or face protection: Recommended: safety glasses with side-shields . Avoid release to the environment.

**Response** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** : Not applicable.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** : sulphamidic acid

**Supplemental label elements** : Not applicable.

### 2.3 Other hazards

**Other hazards which do not result in classification** : None known.

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**SECTION 3: Composition/information on ingredients**

Substance/mixture : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
<b>Europe</b>					
sulphamidic acid	REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0	≥90	Xi; R36/38  R52/53	Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[1]
Phenol, ethoxylated	EC: 500-013-6 CAS: 9004-78-8	≥3 - <5	Xi; R36/38  <b>See Section 16 for the full text of the R-phrases declared above.</b>	Skin Irrit. 2, H315 Eye Irrit. 2, H319  <b>See Section 16 for the full text of the H-statements declared above.</b>	[1]
<b>Austria</b>					
sulphamidic acid	REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0	≥90	Xi; R36/38  R52/53	Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[1]
Phenol, ethoxylated	EC: 500-013-6 CAS: 9004-78-8	≥3 - <5	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
<b>Belgium</b>					
sulphamidic acid	REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0	≥90	Xi; R36/38  R52/53	Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[1]
Phenol, ethoxylated	EC: 500-013-6 CAS: 9004-78-8	≥3 - <5	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
<b>Bulgaria</b>					
sulphamidic acid	REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0	≥90	Xi; R36/38  R52/53	Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[1]
Phenol, ethoxylated	EC: 500-013-6 CAS: 9004-78-8	≥3 - <5	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
<b>Croatia</b>					
sulphamidic acid	REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0	≥90	Xi; R36/38  R52/53	Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[1]
Phenol, ethoxylated	EC: 500-013-6 CAS: 9004-78-8	≥3 - <5	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
<b>Czech Republic</b>					
sulphamidic acid	REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0	≥90	Xi; R36/38  R52/53	Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[1]
Phenol, ethoxylated	EC: 500-013-6 CAS: 9004-78-8	≥3 - <5	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
<b>Denmark</b>					

<p> sulphamidic acid  REACH #: 01-2119488633-28  EC: 226-218-8  CAS: 5329-14-6  Index: 016-026-00-0  Phenol, ethoxylated  <b>Estonia</b> </p>	<p> REACH #: 01-2119488633-28  EC: 226-218-8  CAS: 5329-14-6  Index: 016-026-00-0  EC: 500-013-6  CAS: 9004-78-8 </p>	<p> ≥90  ≥3 - &lt;5 </p>	<p> Xi; R36/38  R52/53  Xi; R36/38 </p>	<p> Skin Irrit. 2, H315  Eye Irrit. 2, H319  Aquatic Chronic 3, H412  Skin Irrit. 2, H315  Eye Irrit. 2, H319 </p>	<p> [1]    [1] </p>
<p> sulphamidic acid  REACH #: 01-2119488633-28  EC: 226-218-8  CAS: 5329-14-6  Index: 016-026-00-0  Phenol, ethoxylated  <b>Finland</b> </p>	<p> REACH #: 01-2119488633-28  EC: 226-218-8  CAS: 5329-14-6  Index: 016-026-00-0  EC: 500-013-6  CAS: 9004-78-8 </p>	<p> ≥90  ≥3 - &lt;5 </p>	<p> Xi; R36/38  R52/53  Xi; R36/38 </p>	<p> Skin Irrit. 2, H315  Eye Irrit. 2, H319  Aquatic Chronic 3, H412  Skin Irrit. 2, H315  Eye Irrit. 2, H319 </p>	<p> [1]    [1] </p>
<p> sulphamidic acid  REACH #: 01-2119488633-28  EC: 226-218-8  CAS: 5329-14-6  Index: 016-026-00-0  Phenol, ethoxylated  <b>France</b> </p>	<p> REACH #: 01-2119488633-28  EC: 226-218-8  CAS: 5329-14-6  Index: 016-026-00-0  EC: 500-013-6  CAS: 9004-78-8 </p>	<p> ≥90  ≥3 - &lt;5 </p>	<p> Xi; R36/38  R52/53  Xi; R36/38 </p>	<p> Skin Irrit. 2, H315  Eye Irrit. 2, H319  Aquatic Chronic 3, H412  Skin Irrit. 2, H315  Eye Irrit. 2, H319 </p>	<p> [1]    [1] </p>
<p> sulphamidic acid  REACH #: 01-2119488633-28  EC: 226-218-8  CAS: 5329-14-6  Index: 016-026-00-0  Phenol, ethoxylated  <b>Germany</b> </p>	<p> REACH #: 01-2119488633-28  EC: 226-218-8  CAS: 5329-14-6  Index: 016-026-00-0  EC: 500-013-6  CAS: 9004-78-8 </p>	<p> ≥90  ≥3 - &lt;5 </p>	<p> Xi; R36/38  R52/53  Xi; R36/38 </p>	<p> Skin Irrit. 2, H315  Eye Irrit. 2, H319  Aquatic Chronic 3, H412  Skin Irrit. 2, H315  Eye Irrit. 2, H319 </p>	<p> [1]    [1] </p>
<p> sulphamidic acid  REACH #: 01-2119488633-28  EC: 226-218-8  CAS: 5329-14-6  Index: 016-026-00-0  Phenol, ethoxylated  <b>Greece</b> </p>	<p> REACH #: 01-2119488633-28  EC: 226-218-8  CAS: 5329-14-6  Index: 016-026-00-0  EC: 500-013-6  CAS: 9004-78-8 </p>	<p> ≥90  ≥3 - &lt;5 </p>	<p> Xi; R36/38  R52/53  Xi; R36/38 </p>	<p> Skin Irrit. 2, H315  Eye Irrit. 2, H319  Aquatic Chronic 3, H412  Skin Irrit. 2, H315  Eye Irrit. 2, H319 </p>	<p> [1]    [1] </p>
<p> sulphamidic acid  REACH #: 01-2119488633-28  EC: 226-218-8  CAS: 5329-14-6  Index: 016-026-00-0  Phenol, ethoxylated  <b>Hungary</b> </p>	<p> REACH #: 01-2119488633-28  EC: 226-218-8  CAS: 5329-14-6  Index: 016-026-00-0  EC: 500-013-6  CAS: 9004-78-8 </p>	<p> ≥90  ≥3 - &lt;5 </p>	<p> Xi; R36/38  R52/53  Xi; R36/38 </p>	<p> Skin Irrit. 2, H315  Eye Irrit. 2, H319  Aquatic Chronic 3, H412  Skin Irrit. 2, H315  Eye Irrit. 2, H319 </p>	<p> [1]    [1] </p>
<p> sulphamidic acid  REACH #: 01-2119488633-28  EC: 226-218-8  CAS: 5329-14-6  Index: 016-026-00-0  Phenol, ethoxylated  <b>Ireland</b> </p>	<p> REACH #: 01-2119488633-28  EC: 226-218-8  CAS: 5329-14-6  Index: 016-026-00-0  EC: 500-013-6  CAS: 9004-78-8 </p>	<p> ≥90  ≥3 - &lt;5 </p>	<p> Xi; R36/38  R52/53  Xi; R36/38 </p>	<p> Skin Irrit. 2, H315  Eye Irrit. 2, H319  Aquatic Chronic 3, H412  Skin Irrit. 2, H315  Eye Irrit. 2, H319 </p>	<p> [1]    [1] </p>

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**SECTION 3: Composition/information on ingredients**

Italy	sulphamidic acid REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 Phenol, ethoxylated EC: 500-013-6 CAS: 9004-78-8	≥90 ≥3 - <5	Xi; R36/38 R52/53 Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]  [1]
Latvia	sulphamidic acid REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 Phenol, ethoxylated EC: 500-013-6 CAS: 9004-78-8	≥90 ≥3 - <5	Xi; R36/38 R52/53 Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]  [1]
Lithuania	sulphamidic acid REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 Phenol, ethoxylated EC: 500-013-6 CAS: 9004-78-8	≥90 ≥3 - <5	Xi; R36/38 R52/53 Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]  [1]
Netherlands	sulphamidic acid REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 Phenol, ethoxylated EC: 500-013-6 CAS: 9004-78-8	≥90 ≥3 - <5	Xi; R36/38 R52/53 Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]  [1]
Norway	sulphamidic acid REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 Phenol, ethoxylated EC: 500-013-6 CAS: 9004-78-8	≥90 ≥3 - <5	Xi; R36/38 R52/53 Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]  [1]
Poland	sulphamidic acid REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 Phenol, ethoxylated EC: 500-013-6 CAS: 9004-78-8	≥90 ≥3 - <5	Xi; R36/38 R52/53 Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]  [1]
Portugal	sulphamidic acid REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 Phenol, ethoxylated EC: 500-013-6 CAS: 9004-78-8	≥90 ≥3 - <5	Xi; R36/38 R52/53 Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]  [1]

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**SECTION 3: Composition/information on ingredients**

sulphamidic acid  Phenol, ethoxylated  <b>Romania</b> sulphamidic acid  Phenol, ethoxylated  <b>Slovakia</b> sulphamidic acid  Phenol, ethoxylated  <b>Slovenia</b> sulphamidic acid  Phenol, ethoxylated  <b>Spain</b> sulphamidic acid  Phenol, ethoxylated  <b>Sweden</b> sulphamidic acid  Phenol, ethoxylated  <b>Switzerland</b> sulphamidic acid  Phenol, ethoxylated  <b>Turkey</b>	REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 EC: 500-013-6 CAS: 9004-78-8  REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 EC: 500-013-6 CAS: 9004-78-8  REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 EC: 500-013-6 CAS: 9004-78-8  REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 EC: 500-013-6 CAS: 9004-78-8  REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 EC: 500-013-6 CAS: 9004-78-8  REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 EC: 500-013-6 CAS: 9004-78-8  REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 EC: 500-013-6 CAS: 9004-78-8  REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0 EC: 500-013-6 CAS: 9004-78-8	≥90  ≥3 - <5  ≥90  ≥3 - <5  ≥90  ≥3 - <5  ≥90  ≥3 - <5  ≥90  ≥3 - <5  ≥90  ≥3 - <5  ≥90  ≥3 - <5  ≥90  ≥3 - <5	Xi; R36/38  R52/53  Xi; R36/38  Xi; R36/38  R52/53  Xi; R36/38  Xi; R36/38  R52/53  Xi; R36/38  Xi; R36/38  R52/53  Xi; R36/38  Xi; R36/38  R52/53  Xi; R36/38  Xi; R36/38	Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412  Skin Irrit. 2, H315 Eye Irrit. 2, H319  Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412  Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412  Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412  Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412  Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412  Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412  Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412  Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[1]  [1]  [1]  [1]  [1]  [1]  [1]  [1]  [1]  [1]  [1]  [1]  [1]  [1]  [1]  [1]
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**SECTION 3: Composition/information on ingredients**

sulphamidic acid	REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0	≥90	Xi; R36/38  R52/53	Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[1]
Phenol, ethoxylated	EC: 500-013-6 CAS: 9004-78-8	≥3 - <5	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
<b>United Kingdom (UK)</b>					
sulphamidic acid	REACH #: 01-2119488633-28 EC: 226-218-8 CAS: 5329-14-6  Index: 016-026-00-0	≥90	Xi; R36/38  R52/53	Skin Irrit. 2, H315  Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[1]
Phenol, ethoxylated	EC: 500-013-6 CAS: 9004-78-8	≥3 - <5	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

**SECTION 4: First aid measures****4.1 Description of first aid measures****Eye contact**

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation**

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact**

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders**

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**4.2 Most important symptoms and effects, both acute and delayed****Potential acute health effects****Eye contact**

: Causes serious eye irritation.

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## SECTION 4: First aid measures

- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides

### 5.3 Advice for firefighters

- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".



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## SECTION 6: Accidental release measures

**6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### 6.3 Methods and material for containment and cleaning up

**Small spill** : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**7.2 Conditions for safe storage, including any incompatibilities** : Store between the following temperatures: 5 to 30°C (41 to 86°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

##### Europe

No exposure limit value known.

##### Austria

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## SECTION 8: Exposure controls/personal protection

No exposure limit value known.

### Belgium

No exposure limit value known.

### Bulgaria

No exposure limit value known.

### Croatia

No exposure limit value known.

### Czech Republic

No exposure limit value known.

### Denmark

No exposure limit value known.

### Estonia

No exposure limit value known.

### Finland

No exposure limit value known.

### France

No exposure limit value known.

### Germany

No exposure limit value known.

### Greece

No exposure limit value known.

### Hungary

No exposure limit value known.

### Ireland

No exposure limit value known.

### Italy

No exposure limit value known.

### Latvia

No exposure limit value known.

### Lithuania

No exposure limit value known.

### Netherlands

No exposure limit value known.

### Norway

No exposure limit value known.

### Poland

No exposure limit value known.

### Portugal

No exposure limit value known.

### Romania

No exposure limit value known.

### Slovakia

No exposure limit value known.

### Slovenia

No exposure limit value known.

### Spain

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## SECTION 8: Exposure controls/personal protection

No exposure limit value known.

### Sweden

No exposure limit value known.

### Switzerland

No exposure limit value known.

### Turkey

No exposure limit value known.

### United Kingdom (UK)

No exposure limit value known.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### Derived effect levels

No DELs available.

### Predicted effect concentrations

No PECs available.

## 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: safety glasses with side-shields

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): disposable vinyl

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: None assigned.

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**SECTION 8: Exposure controls/personal protection**

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. 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. Recommended: None assigned.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**Appearance

- Physical state** : Solid.
- Colour** : Yellow.
- Odour** : acidic smell
- pH** : 2 [Conc. (% w/w): 1%]
- Melting point/freezing point** : 205°C
- Initial boiling point and boiling range** : Not available.
- Flash point** : Not available.
- Upper/lower flammability or explosive limits** : Not available.
- Relative density** : Not available.
- Solubility(ies)** : Soluble in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/ water** : Not available.
- Auto-ignition temperature** : Not available.
- VOC content** : 4.9 % (w/w)

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.
- 10.5 Incompatible materials** : No specific data.
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
sulphamidic acid	LD50 Oral	Rat	3160 mg/kg	-

**Conclusion/Summary** : Not available.**Acute toxicity estimates**

Not available.

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
sulphamidic acid	Eyes - Moderate irritant	Rabbit	-	20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250 Micrograms	-
	Skin - Mild irritant	Human	-	120 hours 4 Percent Intermittent	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-

**Conclusion/Summary** : Not available.**Sensitiser****Conclusion/Summary** : Not available.**Mutagenicity****Conclusion/Summary** : Not available.**Carcinogenicity****Conclusion/Summary** : Not available.**Reproductive toxicity****Conclusion/Summary** : Not available.**Teratogenicity****Conclusion/Summary** : Not available.**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure** : Not available.**Potential acute health effects****Inhalation** : No known significant effects or critical hazards.**Ingestion** : No known significant effects or critical hazards.**Skin contact** : Causes skin irritation.**Eye contact** : Causes serious eye irritation.**Symptoms related to the physical, chemical and toxicological characteristics****Inhalation** : No specific data.**Ingestion** : No specific data.**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness

DS-3 2kg

**SECTION 11: Toxicological information**

**Eye contact** : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness

**Delayed and immediate effects and also chronic effects from short and long term exposure****Short term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

**Conclusion/Summary** : Not available.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

**Other information** : Not available.

**SECTION 12: Ecological information****12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
sulphamidic acid	Acute LC50 14200 µg/l Fresh water	Fish - Pimephales promelas	96 hours

**Conclusion/Summary** : Not available.

**12.2 Persistence and degradability**

**Conclusion/Summary** : Not available.

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
sulphamidic acid	<1	-	low

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

**PBT** : Not applicable.

**vPvB** : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.



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**SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**13.1 Waste treatment methods****Product**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.

**European waste catalogue (EWC)**



Waste code	Waste designation
16 03 03*	inorganic wastes containing dangerous substances

**Packaging**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

	ADR/RID	IMDG
<b>14.1 UN number</b>	2967	2967
<b>14.2 UN proper shipping name</b>	Sulphamic acid (sulphamidic acid)	Sulphamic acid (sulphamidic acid)
<b>14.3 Transport hazard class(es)</b>	8 	8 
<b>14.4 Packing group</b>	III	-

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Regulation (EC) No. 1907/2006 (REACH)****Annex XIV - List of substances subject to authorisation****Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Other EU regulations**

**Europe inventory** : Not determined.

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## SECTION 15: Regulatory information

### National regulations

[Austria](#)

[Belgium](#)

[Bulgaria](#)

[Croatia](#)

[Czech Republic](#)

[Denmark](#)

[Estonia](#)

[Finland](#)

[France](#)

[Germany](#)

Hazard class for water : nwg Appendix No. 4

[Greece](#)

[Hungary](#)

[Ireland](#)

[Italy](#)

[Latvia](#)

[Lithuania](#)

[Netherlands](#)

[Norway](#)

[Poland](#)

[Portugal](#)

[Romania](#)

[Slovakia](#)

[Slovenia](#)

[Spain](#)

[Sweden](#)

[Switzerland](#)

[Turkey](#)

[United Kingdom \(UK\)](#)

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

**Date of printing** : 21.01.2016.

**Date of issue/ Date of revision** : 15.07.2015.

**Date of previous issue** : 11.05.2015.

**Version** : 2.01

### Notice to reader

☑ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

[Procedure used to derive the classification according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

**Classification**

**Justification**

**Date of issue/Date of revision** : 15.07.2015.

**16/17**

**DS-3 2kg**

Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
Aquatic Chronic 3, H412

Calculation method  
Calculation method  
Calculation method

**Europe**

- Full text of abbreviated H statements** : H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.
- Full text of classifications [CLP/GHS]** : Aquatic Chronic 3, H412 LONG-TERM AQUATIC HAZARD - Category 3  
Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2  
Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
- Full text of abbreviated R phrases** : R36/38- Irritating to eyes and skin.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Full text of classifications [DSD/DPD]** : Xi - Irritant

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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