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## SAFETY DATA SHEET

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### 1 Identification of the substance or preparation and the supplier

Product Name: **GAMAZYME TDS**  
 Datasheet Number: 712042 1.0.0  
 Use of the substance/preparation: Cleaning agent  
 Product Part Number: 712042 (100 x 50 gram)  
 Recommended / Intended use: : Cleaning agent  
 Name of Supplier: Unitor ASA  
 Address of Supplier: Willem Barentszstraat 50  
 3165 AB Rotterdam-Albrandswaard, The Netherlands  
  
 Telephone: +31 10 4877 777  
 Fax: +31 10 4877 888  
 Responsible Person: Leen de Visser, Corporate Product Safety Manager, Tel.: +31 6 538 63736  
 Name of Manufacturer: UNITOR CHEMICALS AS  
 Address of Manufacturer: P.O.Box 15  
 3141 Kjøpmannskjær  
 Norway.  
 Telephone: +47 333 515 00  
 Emergency Telephone: NCEC: +44 1865 407333, CHEMTREC (800) 424 9300  
 CMA +1 703 527 3887, Greece +30 210 7793777

### 2 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases	Symbols
Citric acid	<60	77-92-9	201-069-1	36	Xi
Sulphamic acid	<25	5329-14-6	226-218-8	36/38, 52/53	-
Viable bacterial cultures	10-30	N/A	N/A	-	-

### 3 Hazards identification

- Odour: Odourless
- Appearance: powder, blue, dispersible in water
- Contact with eyes: Causes irritation
- Contact with skin: May cause irritation
- Inhalation: Mildly irritating to respiratory system, May cause breathing difficulty
- Ingestion: Not regarded as a potential route of exposure.



Irritant

### 4 First aid measures

#### Contact with skin

- Wash affected area with plenty of soap and water
- Seek medical attention if irritation persists

#### Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Irrigate eyes thoroughly whilst lifting eyelids

#### 4 First aid measures (....)

- Obtain immediate medical attention

##### Ingestion

- Do not induce vomiting
- Never give anything by mouth to an unconscious person
- Give 200-300mls (half pint) water to drink
- Obtain immediate medical attention

##### Inhalation

- Inhalation is unlikely to occur
- Remove patient to fresh air
- Seek medical advice if necessary

##### General

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
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#### 5 Fire-fighting measures

- Smoke from fires is corrosive
  - Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
  - Substance evolves toxic fumes, wear self-contained breathing apparatus
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#### 6 Accidental release measures

##### Personal Precautions

- Wear protective clothing as per section 8

##### Environmental Precautions

- No special precautions are required for this product

##### Clean Up Actions

- Sweep or shovel-up spillage and remove to a safe place
- Flush spill area with copious amounts of water

##### Special Precautions

- Avoid release to the environment. Refer to special instructions/Safety data sheets (S61)
  - Wear protective clothing as per section 8
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#### 7 Handling and storage

##### Handling

- Wear protective clothing as per section 8
- Avoid contact with skin and eyes (S24/25)
- Eyewash bottles should be available

##### Storage

- Keep in a cool, dry, well ventilated place
  - Recommended storage temperature between 0 and 45 °C
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#### 8 Exposure controls and personal protection

##### Exposure Limits

- No exposure limits have been set for this substance

##### Exposure controls

- No special precautions are required for this product

##### Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
  - Respiratory protection may be required under exceptional circumstances when excessive air contamination exists
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## 8 Exposure controls and personal protection (....)



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## 9 Physical and chemical properties

- Odour: Odourless
- Appearance: powder, blue, dispersible in water
- pH ~1.5 at 1 % concentration
- Boiling point - not applicable
- Vapour pressure - not applicable
- Vapour density - not applicable
- Water solubility ~100 g/l
- Density 1300 - 1500 kg/m<sup>3</sup>

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## 10 Stability and reactivity

- This article is considered stable under normal conditions
- Avoid overheating
- Incompatible with strong oxidizing substances, Incompatible with alkalis (strong bases)

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## 11 Toxicological information

### Toxicological information

- No experimental data available

### Inhalation

- Inhalation is unlikely to occur
- May cause breathing difficulty

### Contact with skin

- In cases of severe exposure, redness and irritation may develop

### Contact with eyes

- May cause pain

### Ingestion

- No effects for small dosage. Large dose effects not known
- May cause gastro-intestinal disturbances

### Carcinogenicity

- No evidence of carcinogenic effects

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## 12 Ecological information

### Ecotoxicity

- This product contains components which are classified in the EU as dangerous for the environment.

### Mobility

- Completely soluble in water

### Persistence and Biodegradability

- Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.
- If this substance is discharged at low concentrations into an adapted biological effluent treatment plant, the degrading action of the activated sludge will not be affected

## 12 Ecological information (....)

### Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

### Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly.

In its intended use, the product will not be released into the environment.

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## 13 Disposal considerations

### Classification

- EU Waste class: 06.01

### Disposal considerations

- Disposal should be in accordance with local, state or national legislation
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## 14 Transport information

- Not classified as hazardous for transport
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## 15 Regulatory information



Irritant

### Risk Phrases

- Irritating to eyes and skin (R36/38)

### Safety Phrases

- Avoid contact with skin (S24)
  - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
  - Wear suitable gloves (S37)
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## 16 Other information

(R36: Irritating to eyes. R36/38: Irritating to eyes and skin. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.)

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)

This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC)