




SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** Spotless
08070
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Cleaner. For professional use only.
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:** Amega Sciences plc
Unit 17 Lanchester Way
NN11 8PH Daventry - Northamptonshire - United Kingdom
Phone.: +44 (0) 1327 704 444 -
Fax: +44 (0) 1327 311 226
admin@amega-sciences.com
- 1.4 Emergency telephone number:** +44 (0) 7802844234 (for Emergency ONLY)

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
Directive 67/548/EC and Directive 1999/45/EC:
This product was classified in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting the requirements to Regulation (EC) n°1907/2006 (REACH regulation).
Xi: R36/38 - Irritating to eyes and skin
- CLP Regulation (EC) n° 1272/2008:**
Classification of this product has been carried out in accordance with CLP Regulation (EC) n° 1272/2008.
Eye Irrit. 2: Eye irritation, Category 2
Skin Irrit. 2: Skin irritation, Category 2
- 2.2 Label elements:**
CLP Regulation (EC) n° 1272/2008:
Warning
- 
- Hazard statements:**
Eye Irrit. 2: H319 - Causes serious eye irritation
Skin Irrit. 2: H315 - Causes skin irritation
- Precautionary statements:**
P264: Wash thoroughly after use
P280: Wear protective gloves/protective clothing/eye protection/face protection
P302+P352: IF ON SKIN: Wash with plenty of water
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332+P313: If skin irritation occurs: Get medical advice/attention
P337+P313: If eye irritation persists: Get medical advice/attention
P362: Take off contaminated clothing
- Supplementary information:**
Non-applicable
- 2.3 Other hazards:**
Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical description: Miscellaneous products

Components:

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continue)

| Identification | Chemical name/Classification | | Concentration |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------|
| CAS: 68910-32-7 EC: 272-734-1 Index: Non-applicable REACH: Non-applicable | Benzenesulfonic acid, mono-C10-16-alkyl derivs., compds. with ethanolamine Self-classified | | 10 - <15 % |
| | Directive 67/548/EC | Xi: R38, R41; Xn: R22 | |
| | Regulation 1272/2008 | Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger | |
| CAS: 85443-51-2 EC: 287-243-8 Index: Non-applicable REACH: Non-applicable | (1-hydroxyethylidene)bisphosphonic acid, compound with 2-aminoethanol (1:1) Not classified | | 5 - <10 % |
| | Directive 67/548/EC | | |
| | Regulation 1272/2008 | Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning | |
| CAS: 34590-94-8 EC: 252-104-2 Index: Non-applicable REACH: 01-2119450011-60-XXXX | Dipropylene Glycol Methyl Ether Not classified | | 2.5 - <5 % |
| | Directive 67/548/EC | | |
| | Regulation 1272/2008 | | |
| CAS: 68131-39-5 EC: 500-195-7 Index: Non-applicable REACH: 01-211948720-33-XXXX | Alcohols, C12-15, ethoxylated (C12-15 PARETH-7) Self-classified | | 1 - <2.5 % |
| | Directive 67/548/EC | Xi: R41; Xn: R22 | |
| | Regulation 1272/2008 | Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger | |
| CAS: 141-43-5 EC: 205-483-3 Index: 603-030-00-8 REACH: 01-2119486455-28-XXXX | 2-aminoethanol ATP CLP00 | | <1 % |
| | Directive 67/548/EC | C: R34; Xn: R20/21/22 | |
| | Regulation 1272/2008 | Acute Tox. 4: H302+H312+H332; Skin Corr. 1B: H314 - Danger | |

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

SECTION 4: FIRST AID MEASURES
4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the MSDS of this product.

By inhalation:

This product is not classified as dangerous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with luke warm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the product.

By consumption:

Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES
5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

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SECTION 5: FIREFIGHTING MEASURES (continue)

As a result of combustion or thermal decomposition reactive subproducts are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:

This product is not classified as dangerous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 0 °C

Maximum Temp.: 40 °C

Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

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SECTION 7: HANDLING AND STORAGE (continue)

Agricultural Sprayer Cleaner

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

| Identification | | Environmental limits | |
|---------------------------------------------------------------------|--------------|----------------------|-----------------------|
| Dipropylene Glycol Methyl Ether CAS: 34590-94-8 EC: 252-104-2 | IOELV (8h) | 50 ppm | 308 mg/m ³ |
| | IOELV (STEL) | | |
| | Year | 2014 | |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | IOELV (8h) | 1 ppm | 2.5 mg/m ³ |
| | IOELV (STEL) | 3 ppm | 7.6 mg/m ³ |
| | Year | 2014 | |

DNEL (Workers):

| Identification | | Short exposure | | Long exposure | |
|-------------------------------------------------------------------------------------|------------|----------------|----------------|-----------------------|-----------------------|
| | | Systemic | Local | Systemic | Local |
| Dipropylene Glycol Methyl Ether CAS: 34590-94-8 EC: 252-104-2 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 65 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 310 mg/m ³ | Non-applicable |
| Alcohols, C12-15, ethoxylated (C12-15 PARETH-7) CAS: 68131-39-5 EC: 500-195-7 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 2080 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 294 mg/m ³ | Non-applicable |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 1 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | Non-applicable | 3.3 mg/m ³ |

DNEL (Population):

| Identification | | Short exposure | | Long exposure | |
|-------------------------------------------------------------------------------------|------------|----------------|----------------|------------------------|---------------------|
| | | Systemic | Local | Systemic | Local |
| Dipropylene Glycol Methyl Ether CAS: 34590-94-8 EC: 252-104-2 | Oral | Non-applicable | Non-applicable | 1.67 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 15 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 37.2 mg/m ³ | Non-applicable |
| Alcohols, C12-15, ethoxylated (C12-15 PARETH-7) CAS: 68131-39-5 EC: 500-195-7 | Oral | Non-applicable | Non-applicable | 25 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 1250 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 87 mg/m ³ | Non-applicable |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | Oral | Non-applicable | Non-applicable | 3.75 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 0.24 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | Non-applicable | 2 mg/m ³ |

PNEC:

| Identification | | | | |
|-------------------------------------------------------------------------------------|--------------|----------------|-------------------------|--------------|
| Dipropylene Glycol Methyl Ether CAS: 34590-94-8 EC: 252-104-2 | STP | 4168 mg/L | Fresh water | 19 mg/L |
| | Soil | 2.74 mg/kg | Marine water | 1.9 mg/L |
| | Intermittent | 190 mg/L | Sediment (Fresh water) | 70.2 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 7.02 mg/kg |
| Alcohols, C12-15, ethoxylated (C12-15 PARETH-7) CAS: 68131-39-5 EC: 500-195-7 | STP | 10000 mg/L | Fresh water | 0.0446 mg/L |
| | Soil | 1 mg/kg | Marine water | 0.0446 mg/L |
| | Intermittent | 0.0446 mg/L | Sediment (Fresh water) | 41.3 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 41.3 mg/kg |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | STP | 100 mg/L | Fresh water | 0.085 mg/L |
| | Soil | 0.035 mg/kg | Marine water | 0.0085 mg/L |
| | Intermittent | 0.025 mg/L | Sediment (Fresh water) | 0.425 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0.0425 mg/kg |

8.2 Exposure controls:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)
A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding ""CE marking"" in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the professional exposure limits are exceeded.

C.- Specific protection for the hands

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|-------------------------------|----------------------------|-----------|---------------------------------------------------------------|--------------------------------------------------|
| Mandatory hand protection | Chemical protective gloves | CAT I | EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009 | Replace the gloves at any sign of deterioration. |

D.- Ocular and facial protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|-------------------------------|-----------------------------------------|------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Mandatory face protection | Panoramic glasses against liquid splash | CAT II | EN 166:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN ISO 4007:2012 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Bodily protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|-----------|----------------------|------------|----------------------------------------|----------------------------|
| | Work clothing | CAT I | EN ISO 13688:2013 | For professional use only. |
| | Anti-slip work shoes | CAT II | EN ISO 20347:2012 EN ISO 20344:2011 | None |

F.- Additional emergency measures

| Emergency measure | Standards | Emergency measure | Standards |
|----------------------|--------------------------------|----------------------|-------------------------------|
| Emergency shower | ANSI Z358-1 ISO 3864-1:2002 | Eyewash stations | DIN 12 899 ISO 3864-1:2002 |

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C: Liquid

Appearance: Characteristic

Color: Yellowish

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

Odor: Characteristic

Volatility:

 Boiling point at atmospheric pressure: Non-applicable *
 Vapour pressure at 20 °C: Non-applicable *
 Vapour pressure at 50 °C: Non-applicable *
 Evaporation rate at 20 °C: Non-applicable *

Product description:

 Density at 20 °C: 1020 - 1040 kg/m³ (ISO 649-2)
 Relative density at 20 °C: 1.02 - 1.04
 Dynamic viscosity at 20 °C: Non-applicable *
 Kinematic viscosity at 20 °C: Non-applicable *
 Kinematic viscosity at 40 °C: Non-applicable *
 Concentration: Non-applicable *
 pH: 10 - 11.5 to 100 % (ASTM D3838-05)
 Vapour density at 20 °C: Non-applicable *
 Partition coefficient n-octanol/water 20 °C: Non-applicable *
 Solubility in water at 20 °C: Non-applicable *
 Solubility property: Miscible
 Decomposition temperature: Non-applicable *
 Melting point/freezing point: Non-applicable *

Flammability:

 Flash Point: Non Flammable (>60 °C)
 Autoignition temperature: Non-applicable *
 Lower flammability limit: Non-applicable *
 Upper flammability limit: Non-applicable *

9.2 Other information:

 Surface tension at 20 °C: Non-applicable *
 Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY
10.1 Reactivity:

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|--------------------|------------------|-------------------------|----------------|----------------|
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

10.5 Incompatible materials:

| Acids | Water | Combustive materials | Combustible materials | Others |
|----------------|----------------|----------------------|-----------------------|----------------|
| Not applicable | Not applicable | Precaution | Not applicable | Not applicable |

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SECTION 10: STABILITY AND REACTIVITY (continue)
10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects:

No experimental information is available on the product itself in relation to the toxicological properties. When performing the danger classification on corrosive or irritant effects the recommendations included in section 3.2.5 of Annex VI of Directive 67/548/EC, in paragraphs b) and c) of section 3 of article 6 of Directive 1999/45/EC and in section 3.2.3.3.5. of Annex I of CLP Regulation were taken into account.

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A.- Ingestion:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.

B- Inhalation:

Based on available data, the classification criteria are not met

C- Contact with the skin and the eyes:

Produces skin inflammation.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

E- Sensitizing effects:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensiblizing effects. For more information see section 3.

F- Specific target organ toxicity (STOT)-time exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Classification based on read-across data from similar formulations. Study conducted to OECD Standard, conclusive, Eye Irritation Category 2.

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|----------------------------------------------------------------------------------------------------------------|-----------------|------------------|--------|
| Alcohols, C12-15, ethoxylated (C12-15 PARETH-7) CAS: 68131-39-5 EC: 500-195-7 | LD50 oral | 500 mg/kg (ATEi) | |
| | LD50 dermal | Non-applicable | |
| | LC50 inhalation | Non-applicable | |
| Benzenesulfonic acid, mono-C10-16-alkyl derivs., compds. with ethanolamine CAS: 68910-32-7 EC: 272-734-1 | LD50 oral | 500 mg/kg (ATEi) | Rat |
| | LD50 dermal | Non-applicable | |
| | LC50 inhalation | Non-applicable | |
| 2-aminoethanol CAS: 141-43-5 | LD50 oral | 1515 mg/kg | Rat |
| | LD50 dermal | 2504 mg/kg | Rabbit |

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SECTION 11: TOXICOLOGICAL INFORMATION (continue)

| Identification | Acute toxicity | | Genus |
|----------------|-----------------|---------------|-------|
| EC: 205-483-3 | LC50 inhalation | 11 mg/L (4 h) | Rat |

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the ecotoxicological properties of the product itself is not available

12.1 Toxicity:

| Identification | Acute toxicity | | Specie | Genus |
|---------------------------------------------------------------------|----------------|-------------------|-------------------------|------------|
| Dipropylene Glycol Methyl Ether CAS: 34590-94-8 EC: 252-104-2 | LC50 | 10000 mg/L (96 h) | Pimephales promelas | Fish |
| | EC50 | 1919 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | Non-applicable | | |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | LC50 | 349 mg/L (96 h) | Cyprinus carpio | Fish |
| | EC50 | 65 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 22 mg/L (72 h) | Scenedesmus subspicatus | Alga |

12.2 Persistence and degradability:

| Identification | Degradability | | Biodegradability | |
|---------------------------------------------------------------------|---------------|-----------------------------|------------------|----------------|
| Dipropylene Glycol Methyl Ether CAS: 34590-94-8 EC: 252-104-2 | BOD5 | Non-applicable | Concentration | Non-applicable |
| | COD | 0.00202 g O ₂ /g | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 73 % |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | BOD5 | Non-applicable | Concentration | 20 mg/L |
| | COD | Non-applicable | Period | 21 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 90 % |

12.3 Bioaccumulative potential:

| Identification | Bioaccumulation potential | |
|---------------------------------------------------------------------|---------------------------|-------|
| Dipropylene Glycol Methyl Ether CAS: 34590-94-8 EC: 252-104-2 | BCF | 1 |
| | Pow Log | -0.06 |
| | Potential | Low |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | BCF | 3 |
| | Pow Log | -1.31 |
| | Potential | Low |

12.4 Mobility in soil:

| Identification | Absorption/desorption | | Volatility | |
|--------------------------------------------------|-----------------------|-------------------|------------|-------------------------------|
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | Koc | 0.27 | Henry | 3.7E-5 Pa·m ³ /mol |
| | Conclusion | Very High | Dry soil | No |
| | Surface tension | 50250 N/m (25 °C) | Moist soil | No |

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS
13.1 Waste treatment methods:

| Code | Description | Waste class (Directive 2008/98/EC) |
|-----------|--------------------------------------------|------------------------------------|
| 20 01 29* | Detergents containing dangerous substances | Dangerous |

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2000/532/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

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SECTION 13: DISPOSAL CONSIDERATIONS (continue)
Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000

SECTION 14: TRANSPORT INFORMATION
Transport of dangerous goods by land:

With regard to ADR 2013 and RID 2013:

- | | |
|---------------------------------------------------------------------------------------|----------------|
| 14.1 UN number: | Non-applicable |
| 14.2 UN proper shipping name: | Non-applicable |
| 14.3 Transport hazard class(es): | Non-applicable |
| Labels: | Non-applicable |
| 14.4 Packing group: | Non-applicable |
| 14.5 Dangerous for the environment: | No |
| 14.6 Special precautions for user | |
| Special regulations: | Non-applicable |
| Tunnel restriction code: | Non-applicable |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | Non-applicable |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | Non-applicable |

Transport of dangerous goods by sea:

With regard to IMDG 36-12:

- | | |
|---------------------------------------------------------------------------------------|----------------|
| 14.1 UN number: | Non-applicable |
| 14.2 UN proper shipping name: | Non-applicable |
| 14.3 Transport hazard class(es): | Non-applicable |
| Labels: | Non-applicable |
| 14.4 Packing group: | Non-applicable |
| 14.5 Dangerous for the environment: | No |
| 14.6 Special precautions for user | |
| Special regulations: | Non-applicable |
| EmS Codes: | |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | Non-applicable |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | Non-applicable |

Transport of dangerous goods by air:

With regard to IATA/ICAO 2014:

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SECTION 14: TRANSPORT INFORMATION (continue)

| | |
|---------------------------------------------------------------------------------------|----------------|
| 14.1 UN number: | Non-applicable |
| 14.2 UN proper shipping name: | Non-applicable |
| 14.3 Transport hazard class(es): | Non-applicable |
| Labels: | Non-applicable |
| 14.4 Packing group: | Non-applicable |
| 14.5 Dangerous for the environment: | No |
| 14.6 Special precautions for user | |
| Physico-Chemical properties: | see section 9 |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | Non-applicable |

SECTION 15: REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Non-applicable

Regulation (EC) 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Regulation (EC) n°648/2004 on detergents:

In accordance with this regulation the product complies with the following:

The tensioactives contained in this mixture comply with the biodegradability criteria stipulated in Regulation (EC) n°648/2004 on detergents. The information to prove this is available to the relevant authorities of the Member States and will be shown to them by direct request or the request of a detergent manufacturer.

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Non-applicable

- Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents
- Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII
- Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation)

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION
Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EC) N° 453/2010)

Modifications related to the previous security card which concerns the ways of managing risks. :

- CONTINUED ON NEXT PAGE -


SECTION 16: OTHER INFORMATION (continue)
COMPOSITION/INFORMATION ON INGREDIENTS:

- Added Content
 - 2-aminoethanol (141-43-5)
 - Benzenesulfonic acid, mono-C10-14-alkyl derivs (85117-49-3)
 - Etidronic acid (2809-21-4)
- Removed Content
 - (1-hydroxyethylidene)bisphosphonic acid, compound with 2-aminoethanol (1:1) (85443-51-2)
 - Benzenesulfonic acid, mono-C10-16-alkyl derivs., compds. with ethanolamine (68910-32-7)

Text of R-phrases considered in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

Directive 67/548/EC and Directive 1999/45/EC:

- R20/21/22: Harmful by inhalation, in contact with skin and if swallowed
- R22: Harmful if swallowed
- R34: Causes burns
- R38: Irritating to skin
- R41: Risk of serious damage to eyes

CLP Regulation (EC) n° 1272/2008:

- Acute Tox. 4: H302 - Harmful if swallowed
- Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
- Eye Dam. 1: H318 - Causes serious eye damage
- Eye Irrit. 2: H319 - Causes serious eye irritation
- Skin Corr. 1B: H314 - Causes severe skin burns and eye damage
- Skin Irrit. 2: H315 - Causes skin irritation

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

- <http://esis.jrc.ec.europa.eu>
- <http://echa.europa.eu>
- <http://eur-lex.europa.eu>

Abbreviations and acronyms:

- ADR: European agreement concerning the international carriage of dangerous goods by road
- IMDG: International maritime dangerous goods code
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand
- BOD5: 5-day biochemical oxygen demand
- BCF: Bioconcentration factor
- LD50: Lethal Dose 50
- CL50: Lethal Concentration 50
- EC50: Effective concentration 50
- Log-POW: Octanol–water partition coefficient
- Koc: Partition coefficient of organic carbon

The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -