

**Diesin Maxx****Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Product name : Diesin Maxx

UFI : T0X0-G4JM-T00P-7SE0

Product code : 112798E

Use of the Substance/Mixture : Cleaner and disinfectant

Substance type: : Mixture

For professional users only.

Product dilution information : 2.0 % - 10.0 %

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

Identified uses : Surface disinfectant. Manual process
Sanitary cleaner. Manual process

Recommended restrictions on use : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : Ecolab Limited
Forest Park
Mullingar Industrial Estate, Mullingar Co. Westmeath Ireland +353
1 276 3500
infoireland@ecolab.com

Ecolab Ltd.
PO Box 11; Winnington Avenue
Northwich, Cheshire, United Kingdom CW8 4DX
+353 (0)1 276 3500
ccs@ecolab.com

1.4 Emergency telephone number

Poison Information Centre telephone number : Poisons Information: For information or to report a poisoning incident contact The National Poisons Information Centre (01 8092166)

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Version : 2.5

Section: 2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Diesin Maxx

Classification (REGULATION (EC) No 1272/2008)

Product AS SOLD

| | |
|--------------------------------------|------|
| Skin corrosion, Category 1 | H314 |
| Serious eye damage, Category 1 | H318 |
| Chronic aquatic toxicity, Category 3 | H412 |


Product AT USE DILUTION

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Product AS SOLD

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:

Lactic acid
benzalkonium chloride
Fattyalcohol ethoxylates > 5EO

Product AT USE DILUTION

Not a hazardous substance or mixture.

2.3 Other hazards

Product AS SOLD

Do not mix with bleach or other chlorinated products – will cause chlorine gas.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

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Diesin Maxx**Hazardous components**

| Chemical Name | CAS-No. EC-No. REACH No. | Classification REGULATION (EC) No 1272/2008 | Concentration : [%] |
|---|---|--|------------------------|
| Lactic acid | 79-33-4 201-196-2 01-2119474164-39 | Skin corrosion Sub-category 1C; H314 Serious eye damage Category 1; H318 | >= 5 - < 10 |
| benzalkonium chloride | 68424-85-1 270-325-2 01-2119965180-41 | Acute toxicity Category 4; H302 Skin corrosion Category 1B; H314 Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 1; H410 M = 10 M(Chronic) = 1 | >= 1 - < 2.5 |
| Fattyalcohol ethoxylates > 5EO | 69227-22-1 POLYMER | Acute toxicity Category 4; H302 Serious eye damage Category 1; H318 | >= 1 - < 2.5 |
| Substances with a workplace exposure limit : | | | |
| ethanol | 64-17-5 200-578-6 01-2119457610-43 | Flammable liquids Category 2; H225 Serious eye damage/eye irritation Category 2; H319 Serious eye damage/eye irritation Category 2A 50 - 100 % | >= 0.5 - < 1 |

**Product AT USE DILUTION
Hazardous components**

| Chemical Name | CAS-No. EC-No. REACH No. | Classification REGULATION (EC) No 1272/2008 | Concentration : [%] |
|-----------------------|---|--|------------------------|
| benzalkonium chloride | 68424-85-1 270-325-2 01-2119965180-41 | Acute toxicity Category 4; H302 Skin corrosion Category 1B; H314 Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 1; H410 M = 10 M(Chronic) = 1 | >= 0.1 - < 0.25 |

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****Product AS SOLD**

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

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anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Product AT USE DILUTION

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

Section: 5. FIREFIGHTING MEASURES

Product AS SOLD

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Not flammable or combustible.

Hazardous combustion products : Depending on combustion properties, decomposition products may include following materials:
Carbon oxides
nitrogen oxides (NOx)
Hydrogen chloride

5.3 Advice for firefighters

Special protective equipment for firefighters : Use personal protective equipment.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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Product AS SOLD

Advice for non-emergency personnel : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Advice 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.

Product AT USE DILUTION

Advice for non-emergency personnel : Refer to protective measures listed in sections 7 and 8.

Advice 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.

6.2 Environmental precautions

Product AS SOLD

Environmental precautions : Do not allow contact with soil, surface or ground water.

Product AT USE DILUTION

Environmental precautions : No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Product AS SOLD

Methods for cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION

Methods for cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

6.4 Reference to other sections

See Section 1 for emergency contact information.
For personal protection see section 8.
See Section 13 for additional waste treatment information.

Section: 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

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- Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not breathe spray, vapour. Do not mix with bleach or other chlorinated products – will cause chlorine gas. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Product AT USE DILUTION

- Advice on safe handling : Wash hands after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE). For personal protection see section 8.
- Hygiene measures : Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities**Product AS SOLD**

- Requirements for storage areas and containers : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
- Storage temperature : -5 °C to 40 °C

Product AT USE DILUTION

- Requirements for storage areas and containers : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

7.3 Specific end uses**Product AS SOLD**

- Specific use(s) : Surface disinfectant. Manual process
Sanitary cleaner. Manual process

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Product AS SOLD****Occupational Exposure Limits**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|------------|---------|-------------------------------|--------------------|--------|
| ethanol | 64-17-5 | OELV - 15 min (STEL) | 1,000 ppm | IR_OEL |

8.2 Exposure controls**Product AS SOLD****Appropriate engineering controls**

- Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Diesin Maxx**Individual protection measures**

- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.
- Eye/face protection (EN 166) : Safety goggles
Face-shield
- Hand protection (EN 374) : Recommended preventive skin protection
Gloves
Nitrile rubber
butyl-rubber
Breakthrough time: 1 – 4 hours
Minimum thickness for butyl-rubber 0.7 mm for nitrile rubber 0.4 mm or equivalent (please refer to the gloves manufacturer/distributor for advise).
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin and body protection (EN 14605) : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing including appropriate safety shoes
- Respiratory protection (EN 143, 14387) : None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Product AT USE DILUTION**Appropriate engineering controls**

- Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

- Hygiene measures : Wash hands before breaks and immediately after handling the product.
- Eye/face protection (EN 166) : No special protective equipment required.
- Hand protection (EN 374) : No special protective equipment required.
- Skin and body protection (EN 14605) : No special protective equipment required.
- Respiratory protection (EN 143, 14387) : None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods

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or procedures of work organization.

Environmental exposure controls

General advice : Consider the provision of containment around storage vessels.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | Product AS SOLD | Product AT USE DILUTION |
|--|--|--------------------------------|
| Physical state | : liquid | liquid |
| Colour | : red | light orange |
| Odour | : Perfumes, fragrances | pleasant |
| pH | : 1.3 - 2.3, 100 % | 2.6 - 3.5 |
| Particle characteristics | | |
| Assessment | : not applicable | not applicable |
| Particle size | : not applicable | not applicable |
| Particle Size Distribution | : not applicable | not applicable |
| Dustiness | : not applicable | not applicable |
| Specific surface area | : not applicable | not applicable |
| Surface charge/Zeta potential | : not applicable | not applicable |
| Shape | : not applicable | not applicable |
| Crystallinity | : not applicable | not applicable |
| Surface treatment /Coatings | : not applicable | not applicable |
| Flash point | : Not applicable. | |
| Odour Threshold | : Not applicable and/or not determined for the mixture | |
| Melting point/freezing point | : Not applicable and/or not determined for the mixture | |
| Boiling point, initial boiling point and boiling range | : Not applicable and/or not determined for the mixture | |
| Evaporation rate | : Not applicable and/or not determined for the mixture | |
| Flammability | : Not applicable and/or not determined for the mixture | |
| Upper explosion limit | : Not applicable and/or not determined for the mixture | |
| Lower explosion limit | : Not applicable and/or not determined for the mixture | |
| Vapour pressure | : Not applicable and/or not determined for the mixture | |
| Relative vapour density | : Not applicable and/or not determined for the mixture | |
| Density and / or relative density | : 1.0165 - 1.0265 | |
| Water solubility | : soluble | |
| Solubility in other solvents | : Not applicable and/or not determined for the mixture | |
| Partition coefficient: n-octanol/water (log value) | : Not applicable and/or not determined for the mixture | |
| Auto-ignition temperature | : Not applicable and/or not determined for the mixture | |

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Thermal decomposition : Not applicable and/or not determined for the mixture
Viscosity, kinematic : Not applicable and/or not determined for the mixture
Explosive properties : Not applicable and/or not determined for the mixture
Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Not applicable and/or not determined for the mixture

Section: 10. STABILITY AND REACTIVITY

Product AS SOLD

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Do not mix with bleach or other chlorinated products – will cause chlorine gas.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Bases
Metals

10.6 Hazardous decomposition products

Depending on combustion properties, decomposition products may include following materials:
Carbon oxides
nitrogen oxides (NO_x)
Hydrogen chloride

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product AS SOLD

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Product

Acute oral toxicity : Acute toxicity estimate : > 2,000 mg/kg
Acute inhalation toxicity : There is no data available for this product.

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| | |
|-----------------------------------|--|
| Acute dermal toxicity | : There is no data available for this product. |
| Skin corrosion/irritation | : There is no data available for this product. |
| Serious eye damage/eye irritation | : There is no data available for this product. |
| Respiratory or skin sensitization | : There is no data available for this product. |
| Carcinogenicity | : There is no data available for this product. |
| Reproductive effects | : There is no data available for this product. |
| Germ cell mutagenicity | : There is no data available for this product. |
| Teratogenicity | : There is no data available for this product. |
| STOT - single exposure | : There is no data available for this product. |
| STOT - repeated exposure | : There is no data available for this product. |
| Aspiration toxicity | : There is no data available for this product. |

Components

| | |
|---------------------|--|
| Acute oral toxicity | : Lactic acid LD50 rat: 3,543 mg/kg benzalkonium chloride LD50 rat: 344 mg/kg Fattyalcohol ethoxylates > 5EO LD50 rat: 1,150 mg/kg ethanol LD50 rat: 10,470 mg/kg |
|---------------------|--|

Components

| | |
|---------------------------|--|
| Acute inhalation toxicity | : Lactic acid 4 h LC50 rat: > 7.94 mg/l Test atmosphere: dust/mist ethanol 4 h LC50 rat: 117 mg/l Test atmosphere: vapour |
|---------------------------|--|

Components

| | |
|-----------------------|---|
| Acute dermal toxicity | : benzalkonium chloride LD50 rabbit: 3,340 mg/kg ethanol LD50 rabbit: 15,800 mg/kg |
|-----------------------|---|

Potential Health Effects

Product AS SOLD

| | |
|------------|--|
| Eyes | : Causes serious eye damage. |
| Skin | : Causes severe skin burns. |
| Ingestion | : Causes digestive tract burns. |
| Inhalation | : May cause nose, throat, and lung irritation. |

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Chronic Exposure : Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes : Health injuries are not known or expected under normal use.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure**Product AS SOLD**

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

Product AT USE DILUTION

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

11.2 Information on other hazards

Further information : no data available

Section: 12. ECOLOGICAL INFORMATION**12.1 Toxicity****Product AS SOLD**

Environmental Effects : Harmful to aquatic life with long lasting effects.

Product AT USE DILUTION

Environmental Effects : This product has no known ecotoxicological effects.

Product AS SOLD**Product**

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Components

Toxicity to fish : Lactic acid 96 h LC50 *Oncorhynchus mykiss* (rainbow trout): 130 mg/l

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Fattyalcohol ethoxylates > 5EO96 h LC50 Danio rerio (zebra fish): 5 mg/l

ethanol96 h LC50 Pimephales promelas (fathead minnow): > 100 mg/l

Components

Toxicity to daphnia and other aquatic invertebrates : Lactic acid48 h EC50 Daphnia magna (Water flea): 130 mg/l

benzalkonium chloride48 h EC50 Daphnia magna (Water flea): 0.016 mg/l

Fattyalcohol ethoxylates > 5EO24 h EC50 Daphnia magna (Water flea): 5 mg/l

ethanol48 h EC50 Aquatic Invertebrate: 857 mg/l

Components

Toxicity to algae : Lactic acid72 h EC50 Pseudokirchneriella subcapitata (green algae): > 2,800 mg/l

Fattyalcohol ethoxylates > 5EO72 h EC50 Desmodesmus subspicatus (green algae): 5 mg/l

12.2 Persistence and degradability

Product

Biodegradability : The surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC

Components

Biodegradability : Lactic acidResult: Readily biodegradable.

benzalkonium chlorideResult: Biodegradable

Fattyalcohol ethoxylates > 5EOResult: Readily biodegradable.

ethanolResult: Readily biodegradable.

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Diesin Maxx**12.6 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

12.7 Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.1 Waste treatment methods**Product AS SOLD**

- | | |
|-----------------------------------|---|
| Product | : Do not contaminate storm water drains, natural waterways or soil with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations. Dispose of wastes in an approved waste disposal facility. |
| Contaminated packaging | : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations. |
| Guidance for Waste Code selection | : Organic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations. |

Product AT USE DILUTION

- | | |
|------------------------|---|
| Product | : Diluted product can be flushed to sanitary sewer if regulations permit. |
| Contaminated packaging | : Dispose of in accordance with local, state, and federal regulations. |

Section: 14. TRANSPORT INFORMATION**Product AS SOLD**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

- | | |
|-----------------------------|-----------------------|
| 14.1 UN number or ID number | : Not dangerous goods |
| 14.2 UN proper shipping | : Not dangerous goods |

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name
14.3 Transport hazard : Not dangerous goods
class(es)
14.4 Packing group : Not dangerous goods
14.5 Environmental hazards : Not dangerous goods
14.6 Special precautions for user : Not dangerous goods

Air transport (IATA)

14.1 UN number or ID : Not dangerous goods
number
14.2 UN proper shipping : Not dangerous goods
name
14.3 Transport hazard : Not dangerous goods
class(es)
14.4 Packing group : Not dangerous goods
14.5 Environmental hazards : Not dangerous goods
14.6 Special precautions for user : Not dangerous goods

Sea transport (IMDG/IMO)

14.1 UN number or ID : Not dangerous goods
number
14.2 UN proper shipping : Not dangerous goods
name
14.3 Transport hazard : Not dangerous goods
class(es)
14.4 Packing group : Not dangerous goods
14.5 Environmental hazards : Not dangerous goods
14.6 Special precautions for user : Not dangerous goods
14.7 Maritime transport in : Not dangerous goods
bulk according to IMO
instruments

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

according to Detergents : less than 5 %: Cationic surfactants
Regulation EC 648/2004 Other constituents: Perfumes
Contains: Disinfectants

Seveso III: Directive : Not applicable.
2012/18/EU of the European
Parliament and of the Council
on the control of major-
accident hazards involving
dangerous substances.

Candidate List of Substances : Not applicable.
of Very High Concern for
Authorisation

National Regulations

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Take note of Dir 94/33/EC on the protection of young people at work.

Other regulations : Safety, Health and Welfare at Work Act, 2005
European Communities (Classification, Packaging, Labelling and Notification of Dangerous Preparations) Regulations 1995. (S.I. 272 of 1995) as amended

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out on the product.

Section: 16. OTHER INFORMATION**Procedure used to derive the classification according to REGULATION (EC) No 1272/2008**

| Classification | Justification |
|----------------------------------|-------------------------------------|
| Skin corrosion 1, H314 | Based on product data or assessment |
| Serious eye damage 1, H318 | Based on product data or assessment |
| Chronic aquatic toxicity 3, H412 | Calculation method |

Full text of H-Statements

| | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the

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International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.