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| | SAFETY DATA SHEET | Page : 1 / 11 |
| | | Revision nr : 1.0 |
| | | Issue date : 18/06/2015 |
| | Multipurpose 2-4-C Marine Lubricant with Teflon | Supersedes : |
| | | 766-01-0004S |

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

1.1. Product identifier

Product form : Mixture
Trade name/designation : Multipurpose 2-4-C Marine Lubricant with Teflon
Product code : 74057Q5, 802859Q1, 802861Q1, 802863Q1
Document no. : 766-01-0004S

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional uses, Consumer use
Use of the substance/mixture : Grease
Lubricant

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Brunswick Marine EMEA
Parc industriel de Petit-Rechain, Avenue Mercury 8
4800 Verviers - Belgium
T +32 (0)87 32 32 11

1.4. Emergency telephone number

Emergency number : 0032 3 575 55 55
This telephone number is available 24 hours per day, 7 days per week.

| Country | Official advisory body | Address | Emergency number |
|-----------------------|--|---|--|
| IRELAND (REPUBLIC OF) | National Poisons Information Centre Beaumont Hospital | Beaumont Hospital Beaumont Road 9 Dublin | +353 18 37 99 64/+353 1 809 21 66 |
| UNITED KINGDOM | National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle | 0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours, healthcare professionals only) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Eye Irrit. 2 H319

Aquatic Chronic 3 H412

Full text of H-statements: see section 16

2.2. Label elements

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

Hazard pictograms :



GHS07

Signal word :

Warning

Hazard statements :

H319 - Causes serious eye irritation.

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H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
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.
P501 - Dispose of contents/container to an approved waste disposal plant.

Extra phrases : EUH208 - Contains Polysulfides, di-tert-Bu. May produce an allergic reaction.
: Contains 4,5 % of components with unknown hazards to the aquatic environment

2.3. Other hazards

Other hazards : Results of PBT and vPvB assessment : Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Substance name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|-----------|--|
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | (CAS No.) 68649-42-3 (EC No) 272-028-3 (EC Index) - | 1-<3 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411 |
| Phenol, isopropylated, phosphate (3:1) | (CAS No.) 68937-41-7 (EC No) 273-066-3 | 0,5 - 1,5 | Repr. 2, H361fd STOT RE 2, H373 |
| Triphenyl phosphate | (CAS No.) 115-86-6 (EC No) 204-112-2 | 0,1 - 1 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Polysulfides, di-tert-Bu | (CAS No.) 68937-96-2 (EC No) 273-103-3 | 0,1-<1 | Skin Sens. 1B, H317 Aquatic Chronic 3, H412 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice : First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

Inhalation : Remove person to fresh air and keep comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

Skin contact : Take off contaminated clothing. Gently wash with plenty of soap and water. When in doubt or if symptoms are observed, get medical advice.

Eye contact : Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. When in doubt or if symptoms are observed, get medical advice.

In case of ingestion : Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Get medical advice/attention.

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

Inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

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- Skin contact : The following symptoms may occur: Irritation. Redness. Repeated or prolonged contact may cause allergic reactions in very susceptible persons.
- Eye contact : Causes serious eye irritation. The following symptoms may occur: Redness. Pain. Tears.
- Ingestion : The following symptoms may occur: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : carbon dioxide (CO₂), powder, alcohol-resistant foam, hazy water.
- Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

- Specific hazards : Not flammable.
- Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Metallic oxides. Halogenated compounds.

5.3. Advice for firefighters

- Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
- Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

- For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Stop leak if safe to do so. Dam up. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Large spills: scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Disposal: see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place. Protect from sunlight. Opened containers must be carefully closed and kept upright to avoid leakage. Do not store near or with any of the incompatible materials listed in section 10.

Packaging materials : Keep only in the original container.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Triphenyl phosphate (115-86-6) | | |
|--------------------------------|--|--|
| Austria | MAK (mg/m ³) | 3 mg/m ³ (inhalable fraction) |
| Austria | MAK Short time value (mg/m ³) | 6 mg/m ³ (inhalable fraction) |
| Belgium | Limit value (mg/m ³) | 3 mg/m ³ |
| Croatia | GVI (granična vrijednost izloženosti) (mg/m ³) | 3 mg/m ³ |
| Croatia | KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³) | 6 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 3 mg/m ³ |
| Estonia | OEL TWA (mg/m ³) | 3 mg/m ³ |
| Finland | HTP-arvo (8h) (mg/m ³) | 3 mg/m ³ |
| Finland | HTP-arvo (15 min) | 6 mg/m ³ |
| France | VME (mg/m ³) | 3 mg/m ³ |
| Greece | OEL TWA (mg/m ³) | 3 mg/m ³ |
| Greece | OEL STEL (mg/m ³) | 6 mg/m ³ |
| Ireland | OEL (8 hours ref) (mg/m ³) | 3 mg/m ³ |
| Ireland | OEL (15 min ref) (mg/m ³) | 6 mg/m ³ |
| Portugal | OEL TWA (mg/m ³) | 3 mg/m ³ |
| Romania | OEL TWA (mg/m ³) | 2 mg/m ³ |
| Romania | OEL STEL (mg/m ³) | 4 mg/m ³ |
| Slovenia | OEL TWA (mg/m ³) | 3 mg/m ³ (inhalable fraction) |
| Spain | VLA-ED (mg/m ³) | 3 mg/m ³ |
| United Kingdom | WEL TWA (mg/m ³) | 3 mg/m ³ |
| United Kingdom | WEL STEL (mg/m ³) | 6 mg/m ³ |
| Norway | Grenseverdier (AN) (mg/m ³) | 3 mg/m ³ |
| Norway | Grenseverdier (Korttidsverdi) (mg/m ³) | 6 mg/m ³ |

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| Triphenyl phosphate (115-86-6) | | |
|---------------------------------------|--------------------------------------|--------------------------------------|
| Switzerland | VME (mg/m ³) | 3 mg/m ³ (inhalable dust) |
| Australia | TWA (mg/m ³) | 3 mg/m ³ |
| Canada (Quebec) | VEMP (mg/m ³) | 3 mg/m ³ |
| USA - ACGIH | ACGIH TWA (mg/m ³) | 3 mg/m ³ |
| USA - IDLH | US IDLH (mg/m ³) | 1000 mg/m ³ |
| USA - NIOSH | NIOSH REL (TWA) (mg/m ³) | 3 mg/m ³ |
| USA - OSHA | OSHA PEL (TWA) (mg/m ³) | 3 mg/m ³ |

Additional information : Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

8.2. Exposure controls

- Engineering control measures : Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. Safe handling: see section 7 . Guarantee that the eye flushing systems and safety showers are closely located to the working place.
- Personal protection equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hand protection : Wear chemically resistant gloves (tested to EN374) . Impervious gloves. Suitable material: Nitrile rubber (btt: >8h, >0,3mm). The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
- Eye protection : Use suitable eye protection. (EN166): tightly fitting safety goggles. Use splash goggles when eye contact due to splashing is possible
- Body protection : Wear suitable protective clothing
- Respiratory protection : Not required under normal use. In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (EN 140). Full face mask (EN 136). Filter type P (EN143). Self-contained open-circuit compressed air breathing apparatus (EN 137). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
- Thermal hazard protection : Not required under normal use. Use dedicated equipment.
- Environmental exposure controls : Avoid release to the environment. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Solid
- Appearance : Grease. solid.
- Colour : amber.
- Odour : petroleum-like odour. mild.
- Odour threshold : No data available
- pH : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point/freezing point : No data available
- Freezing point : No data available
- Initial boiling point and boiling range : No data available
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available

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| Flammability (solid, gas) | : Non flammable |
| Vapour pressure | : No data available |
| Vapour density | : No data available |
| Relative density | : No data available |
| Density | : 0,89 g/cm ³ |
| Solubility | : soluble in cold water : No. |
| Partition coefficient n-octanol/water | : No data available |
| Kinematic viscosity | : > 0,22 cm ² /s (40°C) |
| Dynamic viscosity | : No data available |
| Explosive properties | : Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule. |
| Oxidising properties | : Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties. |
| Explosive limits | : No data available |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Safe handling: see section 7.

10.5. Incompatible materials

None under normal processing. Safe handling: see section 7.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Reference to other sections: 5.2.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

| Phenol, isopropylated, phosphate (3:1) (68937-41-7) | |
|--|---------------------------------|
| LD50/oral/rat | > 30000 mg/kg |
| LC50/inhalation/4h/rat | > 200 mg/l (Exposure time: 1 h) |
| Polysulfides, di-tert-Bu (68937-96-2) | |
| LD50/oral/rat | 6500 mg/kg |
| Triphenyl phosphate (115-86-6) | |
| LD50/oral/rat | 3500 mg/kg |
| LD50/dermal/rabbit | > 10000 mg/kg |

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)
pH: No data available

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|-----------------------------------|--|
| Serious eye damage/eye irritation | : Causes serious eye irritation. pH: No data available |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met.) |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met.) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met.) |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met.) |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met.) |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met.) |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met.) |
| Other information | : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4. |

SECTION 12: Ecological information

12.1. Toxicity

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

| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3) | |
|---|--|
| LC50 fish 1 | 1,0 - 5,0 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 1 | 1 - 1,5 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 fish 2 | 10,0 - 35,0 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static]) |
| Phenol, isopropylated, phosphate (3:1) (68937-41-7) | |
| LC50 fish 1 | 1,15 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static]) |
| EC50 Daphnia 1 | 14 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 fish 2 | 1000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) |
| Polysulfides, di-tert-Bu (68937-96-2) | |
| LC50 fish 1 | 250 - 500 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 1 | > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 fish 2 | > 1000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static]) |
| Triphenyl phosphate (115-86-6) | |
| LC50 fish 1 | 0,28 - 0,5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
| EC50 Daphnia 1 | 0,86 - 1,2 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 fish 2 | 0,81 - 0,94 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |

: Contains 4,5 % of components with unknown hazards to the aquatic environment

12.2. Persistence and degradability

| Multipurpose 2-4-C Marine Lubricant with Teflon | |
|--|----------------------------|
| Persistence and degradability | Not readily biodegradable. |

12.3. Bioaccumulative potential

| Multipurpose 2-4-C Marine Lubricant with Teflon | |
|--|--------------------|
| Partition coefficient n-octanol/water | No data available |
| Bioaccumulative potential | No data available. |
| Triphenyl phosphate (115-86-6) | |
| BCF fish 1 | 84 - 193 |
| Partition coefficient n-octanol/water | 4,59 |

12.4. Mobility in soil

| Multipurpose 2-4-C Marine Lubricant with Teflon | |
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| Mobility in soil | No data available |

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12.5. Results of PBT and vPvB assessment

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| Multipurpose 2-4-C Marine Lubricant with Teflon | |
| Results of PBT assessment | No data available |

12.6. Other adverse effects

Other adverse effects : No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. Safe handling: see section 7. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

Codes of waste (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN number : NA
 UN-No : Not applicable
 UN-No : Not applicable
 UN-No. (ADN) : Not applicable
 UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name : Not applicable
 Proper Shipping Name (IMDG) : Not applicable
 Proper Shipping Name (IATA) : Not applicable
 Proper Shipping Name (ADN) : Not applicable
 Proper Shipping Name (RID) : Not applicable
 Transport document description (ADR) : UN NA

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

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14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

Carriage prohibited (ADN) : No
Not subject to ADN : No

- Rail transport

Carriage prohibited (RID) : No

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

Code: IBC : Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

| | |
|--|--|
| 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 | Polysulfides, di-tert-Bu |
| 3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 | Multipurpose 2-4-C Marine Lubricant with Teflon - Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts - Phenol, isopropylated, phosphate (3:1) - Polysulfides, di-tert-Bu |
| 3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 | Multipurpose 2-4-C Marine Lubricant with Teflon - Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts - Triphenyl phosphate - Polysulfides, di-tert-Bu |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

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Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

15.2. Chemical safety assessment

Chemical safety assessments for substances in this preparation were not carried out

SECTION 16: Other information

Abbreviations and acronyms:

| | |
|--|---|
| | ABM = Algemene beoordelingsmethodiek |
| | ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals |
| | BTT = Breakthrough time (maximum wearing time) |
| | DMEL = Derived Minimal Effect level |
| | DNEL = Derived No Effect Level |
| | EC50 = Median Effective Concentration |
| | EL50 = Median effective level |
| | ErC50 = EC50 in terms of reduction of growth rate |
| | ErL50 = EL50 in terms of reduction of growth rate |
| | EWC = European waste catalogue |
| | LC50 = Median lethal concentration |
| | LD50 = Median lethal dose |
| | LL50 = Median lethal level |
| | NA = Not applicable |
| | NOEC = No observed effect concentration |
| | NOEL: no-observed-effect level |
| | NOELR = No observed effect loading rate |
| | NOAEC = No observed adverse effect concentration |

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| | | Supersedes : 766-01-0004S |

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|--|--|
| | NOAEL = No observed adverse effect level |
| | N.O.S. = Not Otherwise Specified |
| | OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs) |
| | PNEC = Predicted No Effect Concentration |
| | Quantitative structure-activity relationship (QSAR) |
| | STOT = Specific Target Organ Toxicity |
| | TWA = time weighted average |
| | VOC = Volatile organic compounds |
| | WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act) |

Sources of key data used to compile the datasheet : European Chemicals Agency. SDS supplier, CONCAWE, LOLI.

Other information : Assessment/classification CLP. Article 9. Calculation method.

Full text of H- and EUH-statements:

| | |
|-------------------|---|
| Aquatic Acute 1 | Hazardous to the aquatic environment - Aquatic Acute 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - chronic hazard category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - chronic hazard category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - chronic hazard category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation Category 2 |
| Repr. 2 | Reproductive toxicity, Hazard Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1B | Sensitisation — Skin, category 1B |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH208 | Contains . May produce an allergic reaction. |

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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