



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006

SDS # : 30579

**RUBIA TIR 7400 15W-40**

Date of the previous version: 2016-10-21

Revision Date: 2016-12-29

Version 5.05

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

|                          |                              |
|--------------------------|------------------------------|
| <b>Product name</b>      | <b>RUBIA TIR 7400 15W-40</b> |
| <b>Number</b>            | 13T                          |
| <b>Substance/mixture</b> | Mixture                      |

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

|                        |            |
|------------------------|------------|
| <b>Identified uses</b> | Motor oil. |
|------------------------|------------|

1.3. Details of the supplier of the safety data sheet

|                 |                                                                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Supplier</b> | TOTAL LUBRIFIANTS<br>562 Avenue du Parc de L'île<br>92029 Nanterre Cedex<br>FRANCE<br>Tél: +33 (0)1 41 35 40 00<br>Fax: +33 (0)1 41 35 84 71 |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------|

For further information, please contact:

|                       |                        |
|-----------------------|------------------------|
| <b>Contact Point</b>  | HSE                    |
| <b>E-mail Address</b> | rm.msds-lubs@total.com |

1.4. Emergency telephone number

Emergency telephone: +44 1235 239670  
France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59  
In France - Poison centers:  
ANGERS : 02 41 48 21 21  
BORDEAUX : 05 55 96 40 80  
LILLE : 08 00 59 59 59  
LYON : 04 72 11 69 11  
MARSEILLE : 04 91 75 25 25  
NANCY : 03 83 22 50 50  
PARIS : 01 40 05 48 48  
STRASBOURG : 03 88 37 37 37  
TOULOUSE : 05 61 77 74 47

**Section 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**REGULATION (EC) No 1272/2008**

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*For the full text of the H-Statements mentioned in this Section, see Section 2.2.***Classification**

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

**2.2. Label elements****Labelled according to**

REGULATION (EC) No 1272/2008

**Signal Word**

None

**Hazard Statements**

None

**Precautionary Statements**

None

**Supplemental Hazard Statements**

EUH210 - Safety data sheet available on request

EUH208 - Contains Calcium long chain alkarylsulphonate May produce an allergic reaction

**2.3. Other hazards****Physical-Chemical Properties**

Contaminated surfaces will be extremely slippery.

**Environmental properties**

Should not be released into the environment.

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixture****Hazardous ingredients**

| Chemical Name                                                                                                        | EC-No     | REACH registration No | CAS-No      | Weight % | Classification (Reg. 1272/2008)                 |
|----------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|-------------|----------|-------------------------------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic                                                               | 265-157-1 | 01-2119484627-25      | 64742-54-7  | 3-<5     | Asp. Tox. 1 (H304)                              |
| Amines, polyethylenepoly-re action products with 1,3-dioxolan-2-one and succinic anhydride monopolyisobutenyl deriva | -         | no data available     | 147880-09-9 | 2.5-<5   | Aquatic Chronic 4 (H413)                        |
| Zinc alkylidithiophosphate                                                                                           | 272-028-3 | 01-2119657973-23      | 68649-42-3  | 1-<2.5   | Eye Dam. 1 (H318)<br>Aquatic Chronic 2 (H411)   |
| Calcium long chain alkarylsulphonate                                                                                 | -         | EXEMPT                | A           | 1-<2.5   | Aquatic Chronic 4 (H413)                        |
| Calcium long chain alkarylsulphonate                                                                                 | -         | -                     | 722503-69-7 | 0.25-<1  | Skin Sens. 1 (H317)<br>Aquatic Chronic 4 (H413) |

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|                                      |   |   |             |          |                                                |
|--------------------------------------|---|---|-------------|----------|------------------------------------------------|
| Calcium long chain alkaryl sulfonate | - | - | 722503-68-6 | 0.1-0.25 | Aquatic Chronic 4 (H413)<br>Skin Sens 1 (H317) |
|--------------------------------------|---|---|-------------|----------|------------------------------------------------|

**Additional information** Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.

**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**

|                       |                                                                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b> | IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.                                                                                                         |
| <b>Eye contact</b>    | Rinse thoroughly with plenty of water, also under the eyelids.                                                                                                                                |
| <b>Skin contact</b>   | Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to hospital. |
| <b>Inhalation</b>     | Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract.                                                                                   |
| <b>Ingestion</b>      | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.                                                         |

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

|                     |                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | Not classified. The supplier of some components contained within this formulation has indicated that the classification as irritant is not required. |
| <b>Skin contact</b> | Not classified. May produce an allergic reaction.                                                                                                    |
| <b>Inhalation</b>   | Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.                                               |
| <b>Ingestion</b>    | Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.                                                      |

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

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

**Section 5: FIRE-FIGHTING MEASURES****5.1. Extinguishing media**

|                                       |                                                                          |
|---------------------------------------|--------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>   | Carbon dioxide (CO <sub>2</sub> ), ABC powder, Foam, Water spray or fog. |
| <b>Unsuitable Extinguishing Media</b> | Do not use a solid water stream as it may scatter and spread fire.       |

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**5.2. Special hazards arising from the substance or mixture****Special Hazard**

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

**5.3. Advice for fire-fighters****Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

**Other information**

Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Section 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures****General Information**

Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

**6.2. Environmental precautions****General Information**

Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information.\*\*\*

**6.3. Methods and material for containment and cleaning up****Methods for cleaning up**

Dam up. 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). Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections****Personal Protective Equipment**

See Section 8 for more detail.

**Waste treatment**

See section 13.

**Section 7: HANDLING AND STORAGE****7.1. Precautions for safe handling****Advice on safe handling**

When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

**Prevention of fire and explosion**

Take precautionary measures against static discharges: Ground/bond containers, tanks

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and transfer/receiving equipment.

**Hygiene measures**

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands and face before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

**7.2. Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

Keep away from food, drink and animal feedingstuffs. Keep in a bonded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

**Materials to Avoid**

Strong oxidizing agents. Strong acids.

**7.3. Specific end uses****Specific use(s)**

No information available.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Exposure limits**

Mineral oil mist:  
USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined)

**Legend**

See section 16

**Derived No Effect Level (DNEL)****DNEL Worker (Industrial/Professional)**

| Chemical Name                                                     | Short term, systemic effects | Short term, local effects | Long term, systemic effects | Long term, local effects                         |
|-------------------------------------------------------------------|------------------------------|---------------------------|-----------------------------|--------------------------------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7 |                              |                           |                             | 5.4 mg/m <sup>3</sup> /8h (aerosol - inhalation) |

**DNEL Consumer**

| Chemical Name                                                     | Short term, systemic effects | Short term, local effects | Long term, systemic effects | Long term, local effects                          |
|-------------------------------------------------------------------|------------------------------|---------------------------|-----------------------------|---------------------------------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7 |                              |                           |                             | 1.2 mg/m <sup>3</sup> /24h (aerosol - inhalation) |

**8.2. Exposure controls**

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**Occupational Exposure Controls****Engineering Measures**

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

**Personal Protective Equipment****General Information**

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

**Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). Type A/P1. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

**Eye Protection**

Tightly fitting safety goggles. Safety glasses with side-shields.

**Skin and body protection**

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

**Hand Protection**

Hydrocarbon-proof gloves: Nitrile rubber, Fluorinated rubber. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency.

**Environmental exposure controls****General Information**

The product should not be allowed to enter drains, water courses or the soil.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

|                             |                  |                          |                                                      |
|-----------------------------|------------------|--------------------------|------------------------------------------------------|
| Appearance                  |                  | limpid                   |                                                      |
| Color                       |                  | brown                    |                                                      |
| Physical State @20°C        |                  | liquid                   |                                                      |
| Odor                        |                  | Characteristic           |                                                      |
| Odor Threshold              |                  | No information available |                                                      |
| <b>Property</b>             | <b>Values</b>    | <b>Remarks</b>           | <b>Method</b>                                        |
| pH                          |                  | Not applicable           |                                                      |
| Melting point/range         |                  | Not applicable           |                                                      |
| Boiling point/boiling range |                  | No information available |                                                      |
| Flash point                 | 232 °C<br>450 °F |                          | Cleveland Open Cup (COC)<br>Cleveland Open Cup (COC) |
| Evaporation rate            |                  | No information available |                                                      |

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|                                           |                          |                                         |            |
|-------------------------------------------|--------------------------|-----------------------------------------|------------|
| <b>Flammability Limits in Air</b>         |                          | No information available                |            |
| <b>upper</b>                              |                          | No information available                |            |
| <b>Lower</b>                              |                          | No information available                |            |
| <b>Vapor Pressure</b>                     |                          | No information available                |            |
| <b>Vapor density</b>                      |                          | No information available                |            |
| <b>Relative density</b>                   | 0.860 - 0.880            | @ 20 °C                                 | ASTM D4052 |
| <b>Density</b>                            | 860 - 880 kg/m³          | @ 20 °C                                 | ASTM D4052 |
| <b>Water solubility</b>                   |                          | Insoluble                               |            |
| <b>Solubility in other solvents</b>       |                          | Soluble in many common organic solvents |            |
| <b>logPow</b>                             |                          | No information available                |            |
| <b>Autoignition temperature</b>           |                          | No information available                |            |
| <b>Decomposition temperature</b>          |                          | No information available                |            |
| <b>Viscosity, kinematic</b>               | 101 mm²/s                | @ 40 °C                                 | ISO 3104   |
|                                           | 13.6 - 14.4 mm²/s        | @ 100 °C                                | ISO 3104   |
| <b>Explosive properties</b>               | Not explosive            |                                         |            |
| <b>Oxidizing Properties</b>               | Not applicable           |                                         |            |
| <b>Possibility of hazardous reactions</b> | No information available |                                         |            |

**9.2. Other information**

|                       |                          |
|-----------------------|--------------------------|
| <b>Freezing Point</b> | No information available |
|-----------------------|--------------------------|

**Section 10: STABILITY AND REACTIVITY****10.1. Reactivity**

|                            |                           |
|----------------------------|---------------------------|
| <b>General Information</b> | No information available. |
|----------------------------|---------------------------|

**10.2. Chemical stability**

|                  |                                              |
|------------------|----------------------------------------------|
| <b>Stability</b> | Stable under recommended storage conditions. |
|------------------|----------------------------------------------|

**10.3. Possibility of hazardous reactions**

|                            |                               |
|----------------------------|-------------------------------|
| <b>Hazardous Reactions</b> | None under normal processing. |
|----------------------------|-------------------------------|

**10.4. Conditions to Avoid**

|                            |                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------|
| <b>Conditions to Avoid</b> | Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. |
|----------------------------|---------------------------------------------------------------------------------------------|

**10.5. Incompatible materials**

|                           |                                        |
|---------------------------|----------------------------------------|
| <b>Materials to Avoid</b> | Strong oxidizing agents. Strong acids. |
|---------------------------|----------------------------------------|

**10.6. Hazardous Decomposition Products**

|                                         |                        |
|-----------------------------------------|------------------------|
| <b>Hazardous Decomposition Products</b> | None under normal use. |
|-----------------------------------------|------------------------|

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**Section 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute toxicity Local effects Product Information**

|                                      |                                                                                                                                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin contact</b>                  | . Not classified. May produce an allergic reaction.                                                                                                    |
| <b>Eye contact</b>                   | . Not classified. The supplier of some components contained within this formulation has indicated that the classification as irritant is not required. |
| <b>Inhalation</b>                    | . Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.                                               |
| <b>Ingestion</b>                     | . Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.                                                      |
| <b>ATEmix (oral)</b>                 | 78,390.00 mg/kg                                                                                                                                        |
| <b>ATEmix (dermal)</b>               | 69,659.00 mg/kg                                                                                                                                        |
| <b>ATEmix (inhalation-dust/mist)</b> | 90.60 mg/l                                                                                                                                             |

**Acute toxicity - Component Information**

| Chemical Name                                          | LD50 Oral                             | LD50 Dermal                              | LC50 Inhalation                               |
|--------------------------------------------------------|---------------------------------------|------------------------------------------|-----------------------------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | LD50 > 5000 mg/kg bw (rat - OECD 402) | LD50 > 5000 mg/kg bw (rabbit - OECD 402) | LC50 (4h) > 5 mg/l (aerosol) (rat - OECD 403) |
| Zinc alkylthiophosphate                                | LD50 2900 mg/kg (Rat)                 | LD50 > 2000 mg/kg (Habbit)               |                                               |

**Sensitization**

**Sensitization** Not classified as a sensitizer. Contains sensitizer(s). May produce an allergic reaction.

**Specific effects**

**Carcinogenicity** This product is not classified carcinogenic. During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

**Mutagenicity** This product is not classified as mutagenic.

**Reproductive toxicity** This product does not present any known or suspected reproductive hazards.

**Repeated Dose Toxicity**

**Subchronic toxicity** No information available.

**Target Organ Effects (STOT)**

**Target Organ Effects (STOT)** No information available.

**Other information**

**Other adverse effects** Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).

**Section 12: ECOLOGICAL INFORMATION**

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**12.1. Toxicity**

Not classified.

**Acute aquatic toxicity - Product Information**

No information available.

**Acute aquatic toxicity - Component Information**

| Chemical Name                                                     | Toxicity to algae                                                 | Toxicity to daphnia and other aquatic invertebrates | Toxicity to fish                                       | Toxicity to microorganisms |
|-------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|----------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7 | EL50 (48h) > 100 mg/l (Pseudokirchnerella subcapitata - OECD 201) | EL50 (48h) > 10000 mg/l (Daphnia magna - OECD 202)  | LL50 (96h) > 100 mg/l (Oncorhynchus mykiss - OECD 203) |                            |
| Zinc alkyldithiophosphate 68649-42-3                              | EC50 (72h) 2.2 mg/l                                               | EC50 (48h) 1.2 mg/l (Daphnia magna)                 | LC50 (96h) 4.5 mg/l                                    |                            |

**Chronic aquatic toxicity - Product Information**

No information available.

**Chronic aquatic toxicity - Component Information**

| Chemical Name                                                     | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates | Toxicity to fish                                                | Toxicity to microorganisms |
|-------------------------------------------------------------------|-------------------|-----------------------------------------------------|-----------------------------------------------------------------|----------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7 |                   | NOEL (21d) 10 mg/l (Daphnia magna - QSAR Petrotox)  | NOEL (14/28d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox) |                            |
| Zinc alkyldithiophosphate 68649-42-3                              | NOEC 1.0 mg/l     | NOEC (21d) 0.4 mg/l (Daphnia magna)                 | NOEC(28d) 1.8 mg/l                                              |                            |

**Effects on terrestrial organisms**

No information available.

**12.2. Persistence and degradability****General Information**

No information available.

**12.3. Bioaccumulative potential****Product Information**

No information available.

**logPow**

No information available

**Component Information**

| Chemical Name                                                       | log Pow |
|---------------------------------------------------------------------|---------|
| Distillates (petroleum), hydrotreated heavy paraffinic - 64742-54-7 | -       |
| Zinc alkyldithiophosphate - 68649-42-3                              | 0.56    |

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**12.4. Mobility in soil**

|              |                                                                                                 |
|--------------|-------------------------------------------------------------------------------------------------|
| <b>Soil</b>  | Given its physical and chemical characteristics, the product generally shows low soil mobility. |
| <b>Air</b>   | Loss by evaporation is limited.                                                                 |
| <b>Water</b> | Insoluble. The product spreads on the surface of the water.                                     |

**12.5. Results of PBT and vPvB assessment**

|                                |                           |
|--------------------------------|---------------------------|
| <b>PBT and vPvB assessment</b> | No information available. |
|--------------------------------|---------------------------|

**12.6. Other adverse effects**

|                            |                           |
|----------------------------|---------------------------|
| <b>General Information</b> | No information available. |
|----------------------------|---------------------------|

**Section 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste from Residues / Unused Products</b> | Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. After use, this oil must be sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the environment. Mixture with other waste types such as solvents, brake- and cooling liquids is forbidden. |
| <b>Contaminated packaging</b>                | Empty containers should be taken to an approved waste handling site for recycling or disposal.                                                                                                                                                                                                                                                                                                                                       |
| <b>EWC Waste Disposal No.</b>                | The following Waste Codes are only suggestions: 13 02 05. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.                                                                                                                                                             |

**Section 14: TRANSPORT INFORMATION**

|                  |               |
|------------------|---------------|
| <b>ADR/RID</b>   | Not regulated |
| <b>IMDG/IMO</b>  | Not regulated |
| <b>ICAO/IATA</b> | Not regulated |
| <b>ADN</b>       | Not regulated |

**Section 15: REGULATORY INFORMATION**

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

European Union

Further information

No information available

**15.2. Chemical Safety Assessment**

Chemical Safety Assessment No information available

**Section 16: OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3**

H304 - May be fatal if swallowed and enters airways

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects

H413 - May cause long lasting harmful effects to aquatic life

**Abbreviations, acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

dw = dry weight

fw = fresh water

mw = marine water

or = occasional release

**Legend** Section 8

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TWA: Time Weight Average

STEL: Short Time Exposure Limit

PEL: Permissible exposure limit

REL: Recommended exposure limit

TLV: Threshold Limit Values

+ Sensitizer  
\*\* Hazard Designation  
M: Mutagen

\* Skin designation  
C: Carcinogen  
R: Toxic to reproduction

Revision Date: 2016-12-29

Revision Note \*\*\* Indicates updated section.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet

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