

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS #: 37579 TRANSELF NFP 75W-80

Date of the previous version: 2016-11-22 Revision Date: 2016-12-29 Version 4.01

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE

COMPANY/UNDERTAKING

1.1. Product identifier

Product name TRANSELF NFP 75W-80

Number NQ8 Substance/mixture Mixture

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

Identified uses Transmission fluid.

1.3. Details of the supplier of the safety data sheet

Supplier TOTAL LUBRIFIANTS

562 Avenue du Parc de L'ile 92029 Nanterre Cedex

FRANCE

Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71

For further information, please contact:

Contact Point HSE

E-mail Address 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 56 96 40 80 LILLE: 08 00 59 59 59 LYON: 04 72 11 69 11 MARSEILLE: 04 91 75 25 25

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 classified as dangerous in accordance with Regulation (EC) No. 1272/2008 Chronic aquatic toxicity - Category 3 - (H412)

2.2. Label elements

Labelled according to

REGULATION (EC) No 1272/2008

Signal Word

None

Hazard Statements

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements

P501 - Dispose of contents/ container to an approved waste disposal plant

EUH208 - Contains Polysulfides, di-tert-Bu 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

| nazaruous ingredients | | | | | |
|--|-----------|-----------------------|------------|-----------|---|
| Chemical Name | EC-No | REACH registration No | CAS-No | Weight % | Classification (Reg. 1272/2008) |
| Distillates (petroleum), hydrotreated light paraffinic | 265-158-7 | 01-2119487077-29 | 64742-55-8 | 40-<50 | Asp. Tox. 1 (H304) |
| Distillates (petroleum), hydrotreated heavy paraffinic | 265-157-1 | 01-2119484627-25 | 64742-54-7 | 20-<30 | Asp. Tox. 1 (H304) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 265-169-7 | 01-2119471299-27 | 64742-65-0 | 3-<5 | Asp. Tox. 1 (H304) |
| Polysulfides, di-tert-Bu | 273-103-3 | 01-2119540515-43 | 68937-96-2 | 1-<2.5 | Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Acute M factor = 1 |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 276-737-9 | 01-2119474878-16 | 72623-86-0 | 1-<2.5 | Asp. Tox. 1 (H304) |
| Methyl methacrylate | 201-297-1 | no data available | 80-62-6 | 0.01-<0.1 | STOT SE 3 (H335) |



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| | Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Flam Flam. Liq. 2 (H225) |
|--|---|
|--|---|

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

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Inhalation Move to fresh air.

Ingestion 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

Eye contact Not classified.

Skin contact Not classified. May produce an allergic reaction. High pressure injection of the products

under the skin may have very serious consequences even though no symptom or injury

may be apparent.

Inhalation Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory

system.

IngestionNot classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

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

Notes to physician Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Carbon dioxide (CO₂). ABC powder. Foam. Water spray or fog.

Unsuitable Extinguishing Media 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 InformationDo 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.

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 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 bunded 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.

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/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH

(TLV) TWA 5 mg/m³ (highly refined);

| Chemical Name | European Union |
|---------------------|----------------|
| Methyl methacrylate | STEL 100 ppm |
| 80-62-6 | TWA 50 ppm |
| | |

Legend See section 16

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 light paraffinic 64742-55-8 | | | | 5.4 mg/m³/8h (aerosol - inhalation) |
| Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7 | | | | 5.4 mg/m³/8h (aerosol - inhalation) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | | | | 5.4 mg/m³/8h (aerosol - inhalation) |



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| 64742-65-0 | | | |
|---|-------------------------------|--|---|
| Polysulfides, di-tert-Bu 68937-96-2 | | 14.5 mg/m³ inhalation 3.3 mg/kg bw/day dermal | |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based 72623-86-0 | | | 5.4 mg/m³/8h (aerosol - inhalation) |
| Methyl methacrylate 80-62-6 | 1.5 mg/cm ² Dermal | 208 mg/m ³ Inhalation 13.67 mg/kg Dermal | 208 mg/m³ Inhalation 1.5 mg/cm² Dermal |

DNEL Consumer

| Chemical Name | Short term, systemic effects | Short term, local effects | Long term, systemic effects | Long term, local effects |
|---|------------------------------|-------------------------------|---|---|
| Distillates (petroleum), hydrotreated light paraffinic 64742-55-8 | | | | 1.2 mg/m³/24h (aerosol - inhalation) |
| Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7 | | | | 1.2 mg/m³/24h (aerosol - inhalation) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic 64742-65-0 | | | | 1.2 mg/m ³ /24h (aerosol - inhalation) |
| Polysulfides, di-tert-Bu 68937-96-2 | | | 2.6 mg/m ³ inhalation 1.66 mg/kg bw/day dermal | |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based 72623-86-0 | | | | 1.2 mg/m ³ /24h (inhalation -aerosol) |
| Methyl methacrylate 80-62-6 | | 1.5 mg/cm ² Dermal | 74.3 mg/m³ Inhalation 8.2 mg/kg Dermal | 104 mg/m³ Inhalation 1.5 mg/cm² Dermal |

Predicted No Effect Concentration (PNEC)

| Chemical Name | Water | Sediment | Soil | Air | STP | Oral |
|---------------------|-----------------|------------------|---------------|-----|-----------|-----------------|
| Polysulfides, | 0.00024 mg/l fw | 7589 mg/kg dw | 1513 mg/kg dw | | 4.51 mg/l | 6.66 mg/kg food |
| di-tert-Bu | 0.000024 mg/l | fw | | | | |
| 68937-96-2 | mw | 758.9 mg/kg dw | | | | |
| | 0.0024 mg/l or | mw | | | | |
| Methyl methacrylate | 0.94 mg/l fw | 5.74 mg/kg dw fw | 1.47 mg/kg dw | | 10 mg/l | |
| 80-62-6 | 0.94 mg/l mw | | | | | |
| | 0.94 mg/l or | | | | | |

8.2. Exposure controls

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



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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.

When workers are facing concentrations above the exposure limit they must use Respiratory protection

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.

If splashes are likely to occur, wear:. Safety glasses with side-shields. **Eye Protection**

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. Skin and body protection

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 yellow To amber

liauid Physical State @20°C

Odor Characteristic

Odor Threshold No information available

Method **Property** Values Remarks

Not applicable Melting point/range Not applicable

Boiling point/boiling range No information available

Flash point > 190 °C Cleveland Open Cup (COC) > 374 °F Cleveland Open Cup (COC)

Evaporation rate

No information available Flammability Limits in Air

No information available upper Lower No information available

No information available Vapor Pressure

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> > No information available

Vapor density No information available

0.857 - 0.867 ISO 12185 Relative density @ 15 °C @ 15 °C **Density** 857 - 867 kg/m³ ISO 12185

Water solubility Insoluble No information available

Solubility in other solvents

logPow

ASTM E 659-78 Autoignition temperature > 250 °C > 482 °F ASTM E 659-78

Decomposition temperature

Viscosity, kinematic 34 mm2/s @ 40 °C ISO 3104

Explosive properties Not explosive **Oxidizing Properties** Not applicable

None under normal processing Possibility of hazardous reactions

9.2. Other information

No information available **Freezing Point**

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

General Information No information available.

10.2. Chemical stability

Stable under recommended storage conditions. Stability

10.3. Possibility of hazardous reactions

Hazardous Reactions None under normal processing.

10.4. Conditions to Avoid

Conditions to Avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

10.5. Incompatible materials

Materials to Avoid Strong oxidizing agents.

10.6. Hazardous Decomposition Products

Hazardous Decomposition Products None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects



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Acute toxicity Local effects Product Information

Skin contact . Not classified. May produce an allergic reaction. High pressure injection of the products

under the skin may have very serious consequences even though no symptom or injury

may be apparent.

Eye contact . Not classified.

Inhalation . Not classified. Inhalation of vapors in high concentration may cause irritation of

respiratory system.

Ingestion . Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

 ATEmix (oral)
 6,736.00 mg/kg

 ATEmix (dermal)
 6,532.00 mg/kg

 ATEmix (inhalation-gas)
 > 5,000.00

 ATEmix (inhalation-dust/mist)
 6.90 mg/l

 ATEmix (inhalation-vapor)
 > 5,000.00

Acute toxicity - Component Information

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|-----------------------------|--------------------------------|-------------------------------------|
| Distillates (petroleum), hydrotreated light | LD50 > 5000 mg/kg bw (rat - | LD50 > 5000 mg/kg bw (rabbit - | LC50 (4h) > 5 mg/l (aerosol) (rat - |
| paraffinic | OECD 420) | OECD 402) | OECD 403) |
| Distillates (petroleum), hydrotreated heavy | LD50 > 5000 mg/kg bw (rat - | LD50 > 5000 mg/kg bw (rabbit - | LC50 (4h) > 5 mg/l (aerosol) (rat - |
| paraffinic | OECD 420) | OECD 402) | OECD 403) |
| Distillates (petroleum), solvent-dewaxed | LD50 > 5000 mg/kg bw (rat - | LD50 > 5000 mg/kg bw (rabbit - | LC50 (4h) > 5.53 mg/l (aerosol) |
| heavy paraffinic | OECD 420) | OECD 402) | (rat - OECD 403) |
| Polysulfides, di-tert-Bu | LD50 2000 mg/kg (Rat - OECD | LD50 2000 mg/kg (Rat - OECD | |
| · | 401) | 402) | |
| Lubricating oils (petroleum), C15-30, | LD50 > 5000 mg/kg bw (Rat - | LD50 > 2000 mg/kg (Rabbit - | LD50 (4h) > 5.53 mg/l (Rat - |
| hydrotreated neutral oil-based | OECD TG 401) | OECD 402) | OECD 403) |
| Methyl methacrylate | LD50 > 5000 mg/kg (Rat) | LD50 > 5000 mg/kg (Rabbit) | LD50(4h) 29.8 mg/kg (Rat - |
| | | | Vapour) |

Sensitization

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

supplier of one of the components contained within this formulation has indicated that they have data, which confirms that at the concentration used, no sensitisation classification is

required.

Specific effects

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

Reproductive toxicityThis product does not present any known or suspected reproductive hazards.

Repeated Dose Toxicity

Subchronic toxicity No information available.

Target Organ Effects (STOT)

Other information

Other adverse effects Characteristic skin lesions (pimples) may develop following prolonged and repeated



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exposures (contact with contaminated clothing).

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

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 light paraffinic 64742-55-8 | EL50 (72h) > 100 mg/l (Pseudokirchneriella subcapitata - OCDE 201) | EL50 (48h) > 10000 mg/L (Daphnia magna - OCDE 202) | LL50 (96h) > 100 mg/L (Oncorhynchus mykiss - OCDE 203) | |
| 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) | |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic 64742-65-0 | | EL50 (48h) > 10000 mg/l (Daphnia magna - OECD 202) | LL50 (96h) > 100 mg/l (Oncorhynchus mykiss - OECD 203) | |
| Polysulfides, di-tert-Bu 68937-96-2 | LCr50 (72h) 0.838 mg/l (Pseudokirchneriella subcapitata - OECD 201) | EC50 (48h) 0.24 mg/l (Daphnia magna - OECD 202) | LC50 (96h) > 0.088 mg/l (Danio rerio - OECD 203) | |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based 72623-86-0 | | EL50 (48h) > 10000 mg/l (OECD TG 202) | LL50 (96h) > 100 mg/l (OECD TG 203) | |
| Methyl methacrylate 80-62-6 | EC50 (72h) > 110 mg/l (Selenastrum capricornutum) | EC50 (48h) = 69 mg/L Daphnia magna | LC50 (96h) > 79 mg/l (Oncorhynchus mykiss) | |

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 light paraffinic 64742-55-8 | | NOEL (21d) 10 mg/l (Daphnia magna - OCDE 211) | NOEL (14/28d) >1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox) | |
| 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) | |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | | NOEL (21d) 10 mg/l (Daphnia magna - OECD 211) | NOEL (14/28d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox) | |



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| 64742-65-0 | | | |
|-------------------------------|----------------------|-------------------------|--|
| Lubricating oils (petroleum), | NOEL (21d) = 10 mg/l | NOELR (14d) > 1000 mg/l | |
| C15-30, hydrotreated neutral | (OECD TG 202) | (QSAR modelled data) | |
| oil-based | | | |
| 72623-86-0 | | | |

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 6
Component Information

| · · · | |
|--|---------|
| Chemical Name | log Pow |
| Distillates (petroleum), hydrotreated heavy paraffinic - 64742-54-7 | - |
| Polysulfides, di-tert-Bu - 68937-96-2 | 5.6 |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based - | 6.1 |
| 72623-86-0 | |
| Methyl methacrylate - 80-62-6 | 1.38 |

12.4. Mobility in soil

Soil Given its physical and chemical characteristics, the product generally shows low soil

mobility.

Air Loss by evaporation is limited.

Water The product is insoluble and floats on water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Other adverse effects

General Information No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products

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



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disposal or incineration. If recycling is not practicable, dispose of in compliance with local

regulations. 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.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EWC Waste Disposal No. EWC Waste Disposal No. 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

ADR/RID Not regulated

IMDG/IMO Not regulated

ICAO/IATA Not regulated

ADN Not regulated

Section 15: REGULATORY INFORMATION

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

H225 - Highly flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H317 - May cause an allergic skin reaction

H315 - Causes skin irritation

H335 - May cause respiratory irritation



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H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

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

TWA: Time Weight Average STEL: Short Time Exposure Limit PEL: Permissible exposure limit REL: Recommended exposure limit TLV: Threshold Limit Values

+ Sensitizer * Skin designation

** Hazard Designation C: Carcinogen

M: Mutagen R: Toxic to reproduction

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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