

## Safety Data Sheet

### ASTRON Galaxy NEO VS 0W-30

Revision date: 28.10.2021

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

##### 1.1. Product identifier

ASTRON Galaxy NEO VS 0W-30

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

###### Use of the substance/mixture

Motor oil multigrade

###### Uses advised against

No information available.

##### 1.3. Details of the supplier of the safety data sheet

|                         |                                    |                         |
|-------------------------|------------------------------------|-------------------------|
| Company name:           | Duran Lubricants & Chemicals GmbH  |                         |
| Street:                 | Rodderheide 3-7                    |                         |
| Place:                  | D-33824 Werther                    |                         |
| Telephone:              | +49 (0)5203-901510                 | Fax: +49 (0)5203-901515 |
| e-mail:                 | info@duran-oil.com                 |                         |
| Internet:               | www.fosser.de                      |                         |
| Responsible Department: | Produktsicherheit / Product Safety |                         |
|                         | info@duran-oil.com                 |                         |

##### 1.4. Emergency telephone number:

Giftinformationszentrum Nord  
(Göttingen)+49 (0)551/19240

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Regulation (EC) No. 1272/2008

Hazard categories:

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful to aquatic life with long lasting effects.

##### 2.2. Label elements

###### Regulation (EC) No. 1272/2008

###### Hazard statements

H412 Harmful to aquatic life with long lasting effects.

###### Precautionary statements

P273 Avoid release to the environment.

P501 Dispose of contents / container in accordance with official regulations.

###### Special labelling of certain mixtures

EUH208 Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.

##### 2.3. Other hazards

No information available.

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

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#### Hazardous components

| CAS No      | Chemical name                                                                                      |              |                  | Quantity       |
|-------------|----------------------------------------------------------------------------------------------------|--------------|------------------|----------------|
|             | EC No                                                                                              | Index No     | REACH No         |                |
|             | GHS Classification                                                                                 |              |                  |                |
| 64742-54-7  | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified                      |              |                  | 44 - <= 74,5 % |
|             | 265-157-1                                                                                          | 649-467-00-8 | 01-2119484627-25 |                |
|             | Asp. Tox. 1; H304                                                                                  |              |                  |                |
| 722503-68-6 | Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts                   |              |                  | 0 - < 0,5 %    |
|             | 682-816-2                                                                                          |              |                  |                |
|             | Skin Sens. 1, Aquatic Chronic 4; H317 H413                                                         |              |                  |                |
| 121158-58-5 | phenol, dodecyl-, branched                                                                         |              |                  | 0 - < 0,15 %   |
|             | 310-154-3                                                                                          | 604-092-00-9 | 01-2119513207-49 |                |
|             | Repr. 1B, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H360F H314 H318 H400 H410 |              |                  |                |

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

| CAS No      | EC No     | Chemical name                                                                                      | Quantity       |
|-------------|-----------|----------------------------------------------------------------------------------------------------|----------------|
|             |           | Specific Conc. Limits, M-factors and ATE                                                           |                |
| 64742-54-7  | 265-157-1 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified                      | 44 - <= 74,5 % |
|             |           | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg                                             |                |
| 121158-58-5 | 310-154-3 | phenol, dodecyl-, branched                                                                         | 0 - < 0,15 %   |
|             |           | dermal: LD50 = ca. 15000 mg/kg; oral: LD50 = 2100 mg/kg M akut; H400: M=10<br>M chron.; H410: M=10 |                |

#### Further Information

This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Remove affected person from the danger area and lay down.  
 Do not leave affected person unattended.  
 In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### After inhalation

Provide fresh air. Call a doctor if you feel unwell.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.  
 Take off contaminated clothing and wash it before reuse.  
 In case of skin irritation, consult a physician.

##### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

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#### **After ingestion**

Rinse mouth thoroughly with water.  
Let water be drunk in little sips (dilution effect).  
Do NOT induce vomiting.  
In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Use water spray jet to protect personnel and to cool endangered containers.  
Co-ordinate fire-fighting measures to the fire surroundings.

##### **Unsuitable extinguishing media**

Full water jet

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

Formation of toxic gases is possible during heating or in case of fire.  
In case of fire may be liberated:  
- Carbon monoxide (CO)  
- Carbon dioxide (CO<sub>2</sub>).  
- Nitrogen oxides (NO<sub>x</sub>)  
- Pyrolysis products, toxic

#### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Use of protective clothing  
In case of fire and/or explosion do not breathe fumes.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **General measures**

Keep people at a distance and stay on the windward side.  
Special danger of slipping by leaking/spilling product.

##### **For non-emergency personnel**

Wear protective gloves/protective clothing and eye/face protection.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.  
Do not allow to enter into soil/subsoil.  
Prevent spread over a wide area (e.g. by containment or oil barriers).

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

##### **For containment**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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#### **For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.  
Remove from the water surface (e.g. skimming, sucking).

#### **6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Avoid formation of oil dust.  
Use personal protection equipment.  
Do not put any product-impregnated cleaning rags into your trouser pockets.  
Clear spills immediately.

##### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.  
Take precautionary measures against static discharges.  
Keep away from sources of ignition - No smoking.

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Keep container tightly closed and in a well-ventilated place.  
Keep only in the original container. Store in a cool dry place.  
Floors should be impervious, resistant to liquids and easy to clean.

##### **Hints on joint storage**

Do not store together with:  
- Materials capable of ignition under almost all normal temperature conditions  
- Explosives

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

Motor oil multigrade

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

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#### DNEL/DMEL values

| CAS No                   | Substance                                                                     | Exposure route | Effect | Value                   |
|--------------------------|-------------------------------------------------------------------------------|----------------|--------|-------------------------|
| DNEL type                |                                                                               |                |        |                         |
| 64742-54-7               | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified |                |        |                         |
| Worker DNEL, long-term   | inhalation                                                                    | systemic       |        | 2,73 mg/m <sup>3</sup>  |
| Worker DNEL, long-term   | inhalation                                                                    | local          |        | 5,58 mg/m <sup>3</sup>  |
| Worker DNEL, long-term   | dermal                                                                        | systemic       |        | 0,97 mg/kg bw/day       |
| Consumer DNEL, long-term | inhalation                                                                    | local          |        | 1,19 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term | oral                                                                          | systemic       |        | 0,74 mg/kg bw/day       |
| 121158-58-5              | phenol, dodecyl-, branched                                                    |                |        |                         |
| Worker DNEL, acute       | inhalation                                                                    | systemic       |        | 44,18 mg/m <sup>3</sup> |
| Worker DNEL, long-term   | dermal                                                                        | systemic       |        | 0,25 mg/kg bw/day       |
| Worker DNEL, acute       | dermal                                                                        | systemic       |        | 166 mg/kg bw/day        |
| Consumer DNEL, long-term | inhalation                                                                    | systemic       |        | 0,79 mg/m <sup>3</sup>  |
| Consumer DNEL, acute     | inhalation                                                                    | systemic       |        | 13,26 mg/m <sup>3</sup> |
| Consumer DNEL, long-term | dermal                                                                        | systemic       |        | 0,075 mg/kg bw/day      |
| Consumer DNEL, acute     | dermal                                                                        | systemic       |        | 50 mg/kg bw/day         |
| Consumer DNEL, long-term | oral                                                                          | systemic       |        | 0,075 mg/kg bw/day      |
| Consumer DNEL, acute     | oral                                                                          | systemic       |        | 1,26 mg/kg bw/day       |

#### PNEC values

| CAS No                                           | Substance                                                                     | Value         |
|--------------------------------------------------|-------------------------------------------------------------------------------|---------------|
| Environmental compartment                        |                                                                               |               |
| 64742-54-7                                       | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified |               |
| Secondary poisoning                              |                                                                               | 9,33 mg/kg    |
| 121158-58-5                                      | phenol, dodecyl-, branched                                                    |               |
| Freshwater                                       |                                                                               | 0,000074 mg/l |
| Freshwater (intermittent releases)               |                                                                               | 0,00037 mg/l  |
| Marine water                                     |                                                                               | 0,000007 mg/l |
| Freshwater sediment                              |                                                                               | 0,226 mg/kg   |
| Marine sediment                                  |                                                                               | 0,027 mg/kg   |
| Secondary poisoning                              |                                                                               | 4 mg/kg       |
| Micro-organisms in sewage treatment plants (STP) |                                                                               | 100 mg/l      |
| Soil                                             |                                                                               | 0,118 mg/kg   |

#### Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls

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#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and after work.

When using do not eat, drink, smoke, sniff.

#### Eye/face protection

During filling, metering, mixing and sampling must be used:

Wear eye/face protection. DIN EN 166

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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.

Recommended glove articles: EN ISO 374

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough time: > 8h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                  |                |
|------------------|----------------|
| Physical state:  | Liquid         |
| Colour:          | yellow-brown   |
| Odour:           | characteristic |
| Odour threshold: | not determined |
| pH-Value:        | not determined |

#### Changes in the physical state

|                                                           |                |
|-----------------------------------------------------------|----------------|
| Melting point:                                            | not determined |
| Boiling point or initial boiling point and boiling range: | not determined |
| Pour point:                                               | -45 °C         |
| Flash point:                                              | 232 °C         |

#### Flammability

|               |                |
|---------------|----------------|
| Solid/liquid: | not applicable |
| Gas:          | not applicable |

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#### Explosive properties

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Lower explosion limits: not determined

Upper explosion limits: not determined

#### Self-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

#### Oxidizing properties

The product is not: oxidising.

Vapour pressure: not determined

Density (at 15 °C): 0,847 g/cm<sup>3</sup>

Water solubility: not determined

#### Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Viscosity / kinematic:  
(at 40 °C) 66 mm<sup>2</sup>/s

Relative vapour density: not determined

Evaporation rate: not determined

#### 9.2. Other information

Solid content: not determined

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

The formation of combustible vapours is possible at temperatures above: Flash point

#### 10.4. Conditions to avoid

Avoid: Thermal decomposition

#### 10.5. Incompatible materials

Materials to avoid:

- Acids
- Oxidising agent
- Reducing agent

#### 10.6. Hazardous decomposition products

Hazardous combustion products:

- Carbon monoxide (CO)
- Carbon dioxide (CO<sub>2</sub>)
- Nitrogen oxides (NO<sub>x</sub>)
- Pyrolysis products, toxic

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#### SECTION 11: Toxicological information

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

###### Acute toxicity

Based on available data, the classification criteria are not met.

| CAS No      | Chemical name                                                                 |                      |         |                     |                    |
|-------------|-------------------------------------------------------------------------------|----------------------|---------|---------------------|--------------------|
|             | Exposure route                                                                | Dose                 | Species | Source              | Method             |
| 64742-54-7  | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified |                      |         |                     |                    |
|             | oral                                                                          | LD50 > 5000 mg/kg    | Rat     | Study report (1982) | OECD Guideline 401 |
|             | dermal                                                                        | LD50 > 5000 mg/kg    | Rabbit  | Study report (1982) | OECD Guideline 402 |
| 121158-58-5 | phenol, dodecyl-, branched                                                    |                      |         |                     |                    |
|             | oral                                                                          | LD50 2100 mg/kg      | Rat     | Publication (1978)  | OECD Guideline 401 |
|             | dermal                                                                        | LD50 ca. 15000 mg/kg | Rabbit  | Study report (1968) | OECD Guideline 402 |

###### Irritation and corrosivity

Based on available data, the classification criteria are not met.

###### Sensitising effects

Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.

###### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

The product contains less than 3% DMSO extract (method IP346). A classification as a carcinogen with R45 is deleted. (Note L)

###### STOT-single exposure

Based on available data, the classification criteria are not met.

###### STOT-repeated exposure

Based on available data, the classification criteria are not met.

###### Aspiration hazard

Based on available data, the classification criteria are not met.

##### 11.2. Information on other hazards

###### Endocrine disrupting properties

No information available.

#### SECTION 12: Ecological information

##### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

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| CAS No      | Chemical name                                                                 |               |           |         |                                                    |                                           |
|-------------|-------------------------------------------------------------------------------|---------------|-----------|---------|----------------------------------------------------|-------------------------------------------|
|             | Aquatic toxicity                                                              | Dose          | [h]   [d] | Species | Source                                             | Method                                    |
| 64742-54-7  | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified |               |           |         |                                                    |                                           |
|             | Acute fish toxicity                                                           | LL50<br>mg/l  | > 100     | 96 h    | Pimephales promelas                                | Study report (1995)<br>OECD Guideline 203 |
| 121158-58-5 | phenol, dodecyl-, branched                                                    |               |           |         |                                                    |                                           |
|             | Acute fish toxicity                                                           | LL50          | 40 mg/l   | 96 h    | Pimephales promelas                                | Study report (1994)<br>OECD Guideline 203 |
|             | Acute algae toxicity                                                          | ErC50<br>mg/l | 0,15      | 72 h    | Desmodesmus subspicatus                            | Study report (2005)<br>OECD Guideline 201 |
|             | Acute crustacea toxicity                                                      | EC50<br>mg/l  | 0,037     | 48 h    | Daphnia magna                                      | Study report (2005)<br>OECD Guideline 202 |
|             | Fish toxicity                                                                 | NOEC<br>mg/l  | 0,0037    | 21 d    | Daphnia magna (Big water flea)                     | ECHA Dossier                              |
|             | Crustacea toxicity                                                            | NOEC<br>mg/l  | 0,004     | 21 d    | Daphnia magna                                      | Study report (2005)<br>OECD Guideline 211 |
|             | Acute bacteria toxicity                                                       | (> 1000 mg/l) |           | 3 h     | activated sludge of a predominantly industrial sew | Study report (2004)<br>OECD Guideline 209 |

#### 12.2. Persistence and degradability

| CAS No      | Chemical name                                          |       |    |        |
|-------------|--------------------------------------------------------|-------|----|--------|
|             | Method                                                 | Value | d  | Source |
|             | Evaluation                                             |       |    |        |
| 121158-58-5 | phenol, dodecyl-, branched                             |       |    |        |
|             | OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C                | 25%   | 28 |        |
|             | Not readily biodegradable (according to OECD criteria) |       |    |        |

#### 12.3. Bioaccumulative potential

##### Partition coefficient n-octanol/water

| CAS No      | Chemical name              | Log Pow |
|-------------|----------------------------|---------|
| 121158-58-5 | phenol, dodecyl-, branched | 7,14    |

##### BCF

| CAS No      | Chemical name              | BCF | Species             | Source              |
|-------------|----------------------------|-----|---------------------|---------------------|
| 121158-58-5 | phenol, dodecyl-, branched | 289 | Oncorhynchus mykiss | Study report (2006) |

#### 12.4. Mobility in soil

The product has not been tested.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

No information available.

#### 12.7. Other adverse effects

No information available.

### SECTION 13: Disposal considerations

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#### **13.1. Waste treatment methods**

##### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

##### **Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### **SECTION 14: Transport information**

#### **Land transport (ADR/RID)**

|                                                 |                                                          |
|-------------------------------------------------|----------------------------------------------------------|
| <b><u>14.1. UN number:</u></b>                  | No dangerous good in sense of this transport regulation. |
| <b><u>14.2. UN proper shipping name:</u></b>    | No dangerous good in sense of this transport regulation. |
| <b><u>14.3. Transport hazard class(es):</u></b> | No dangerous good in sense of this transport regulation. |
| <b><u>14.4. Packing group:</u></b>              | No dangerous good in sense of this transport regulation. |

#### **Inland waterways transport (ADN)**

|                                                 |                                                          |
|-------------------------------------------------|----------------------------------------------------------|
| <b><u>14.1. UN number:</u></b>                  | No dangerous good in sense of this transport regulation. |
| <b><u>14.2. UN proper shipping name:</u></b>    | No dangerous good in sense of this transport regulation. |
| <b><u>14.3. Transport hazard class(es):</u></b> | No dangerous good in sense of this transport regulation. |
| <b><u>14.4. Packing group:</u></b>              | No dangerous good in sense of this transport regulation. |

#### **Marine transport (IMDG)**

|                                                 |                                                          |
|-------------------------------------------------|----------------------------------------------------------|
| <b><u>14.1. UN number:</u></b>                  | No dangerous good in sense of this transport regulation. |
| <b><u>14.2. UN proper shipping name:</u></b>    | No dangerous good in sense of this transport regulation. |
| <b><u>14.3. Transport hazard class(es):</u></b> | No dangerous good in sense of this transport regulation. |
| <b><u>14.4. Packing group:</u></b>              | No dangerous good in sense of this transport regulation. |

#### **Air transport (ICAO-TI/IATA-DGR)**

|                                                 |                                                          |
|-------------------------------------------------|----------------------------------------------------------|
| <b><u>14.1. UN number:</u></b>                  | No dangerous good in sense of this transport regulation. |
| <b><u>14.2. UN proper shipping name:</u></b>    | No dangerous good in sense of this transport regulation. |
| <b><u>14.3. Transport hazard class(es):</u></b> | No dangerous good in sense of this transport regulation. |
| <b><u>14.4. Packing group:</u></b>              | No dangerous good in sense of this transport regulation. |

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

#### **14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

#### **14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

### **SECTION 15: Regulatory information**

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

##### **EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30

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Information according to 2012/18/EU  
(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

#### National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

2 - obviously hazardous to water

Skin resorption/Sensitization:

Causes allergic hypersensitivity reactions.

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,15,16.

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

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VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

#### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Aquatic Chronic 3; H412 | Calculation method       |

#### Relevant H and EUH statements (number and full text)

|        |                                                                                                                              |
|--------|------------------------------------------------------------------------------------------------------------------------------|
| H304   | May be fatal if swallowed and enters airways.                                                                                |
| H314   | Causes severe skin burns and eye damage.                                                                                     |
| H317   | May cause an allergic skin reaction.                                                                                         |
| H318   | Causes serious eye damage.                                                                                                   |
| H360F  | May damage fertility.                                                                                                        |
| H400   | Very toxic to aquatic life.                                                                                                  |
| H410   | Very toxic to aquatic life with long lasting effects.                                                                        |
| H412   | Harmful to aquatic life with long lasting effects.                                                                           |
| H413   | May cause long lasting harmful effects to aquatic life.                                                                      |
| EUH208 | Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction. |

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*