



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and  
Regulation (EC) No. 1272/2008

Issuing Date 04-Apr-2024

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Revision Number 1

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

### 1.1. Product identifier

Product Name AMSOIL Injector Oil

Product Code(s) AIO

Synonyms None

Pure substance/mixture Mixture

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

Recommended use Lubricating Oil

Uses advised against Avoid formation of mists

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

#### Supplier

AMSOIL INC.  
One AMSOIL Center  
Superior, WI 54880, USA  
T: +1 715-392-7101

#### For further information, please contact

E-mail address compliance@amsoil.com

### 1.4. Emergency telephone number

Emergency telephone CHEMTREC International: +1 703-741-5970

Emergency telephone - §45 - (EC)1272/2008

Europe 112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

|                                                  |                     |
|--------------------------------------------------|---------------------|
| Skin irritation                                  | Category 2 - (H315) |
| Eye irritation                                   | Category 2 - (H319) |
| Specific target organ toxicity — single exposure | Category 3 - (H336) |
| Category 3 Narcotic effects                      |                     |
| Chronic aquatic toxicity                         | Category 2 - (H411) |

### 2.2. Label elements

Contains Base oil; Base oil; Base oil

**Signal word**

Warning

**Hazard statements**

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

**Precautionary Statements - EU (§28, 1272/2008)**

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear protective gloves and eye/face protection.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P391 - Collect spillage.

35.054 % of the mixture consists of ingredient(s) of unknown acute toxicity.

**Unknown aquatic toxicity**

Contains 0 % of components with unknown hazards to the aquatic environment.

**2.3. Other hazards****Other hazards**

Harmful to aquatic life.

**PBT & vPvB**

None known

**Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

| Chemical name          | Weight-% | REACH registration number | EC No (EU Index No)         | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|------------------------|----------|---------------------------|-----------------------------|-----------------------------------------------------------------|------------------------------------|----------|----------------------|
| Base oil<br>64742-54-7 | 40-45    | No data available         | 265-157-1<br>(649-467-00-8) | Carc. 1B<br>(H350) (*L)                                         | -                                  | -        | -                    |
| Synthetic Ester<br>-   | 10-15    | No data available         | No information available    | Skin. Irrit.2<br>(H315)<br>Eye Irrit. 2<br>(H319)               | -                                  | -        | -                    |
| Base oil<br>64742-47-8 | 10-15    | No data available         | 265-149-8<br>(649-422-00-2) | Asp. Tox. 1<br>(H304)                                           | -                                  | -        | -                    |

|                                         |         |                   |                             |                                                                                                                                           |   |   |   |
|-----------------------------------------|---------|-------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|
|                                         |         |                   |                             | Skin Irrit. 2 (H315)<br>Aquatic Chronic 2 (H411)<br>Flam. Liq. 3 (H226)<br>STOT SE 3 (H336)<br>Eye Irrit. 2A (H319)                       |   |   |   |
| Base oil<br>64742-48-9                  | 10-15   | No data available | 265-150-3<br>(649-327-00-6) | Flam. Liq. 3 (H226)<br>Skin Irrit. 2 (H315)<br>STOT SE 3 (H336)<br>Asp. Tox. 1 (H304)<br>Aquatic Chronic 2 (H411)<br>Eye Irrit. 2A (H319) | - | - | - |
| Base oil<br>64742-95-6                  | 1-3     | No data available | 265-199-0<br>(649-356-00-4) | Flam. Liq. 3 (H226)<br>Asp. Tox. 1 { H304)<br>STOT SE 3 (H335)<br>STOT SE 3 (H336)                                                        | - | - | - |
| Benzene,<br>1,2,4-trimethyl-<br>95-63-6 | 0.1-1   | No data available | 202-436-9<br>(601-043-00-3) | Acute Tox. 4 (H332)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 (H335)<br>Aquatic Chronic 2 (H411)<br>Flam. Liq. 3 (H226) | - | - | - |
| Base oil<br>8042-47-5                   | 0.1-0.2 | No data available | 232-455-8                   | Asp. Tox. 1 (H304)                                                                                                                        | - | - | - |

**Full text of H- and EUH-phrases: see section 16**

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE<sub>mix</sub>) for classifying a mixture based on its components

| Chemical name          | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|------------------------|-----------------|-------------------|---------------------------------------------|------------------------------------------|--------------------------------------|
| Base oil<br>64742-54-7 | 15000           | 5000              | No data available                           | No data available                        | No data available                    |

| Chemical name                        | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|--------------------------------------|-----------------|-------------------|---------------------------------------------|------------------------------------------|--------------------------------------|
| Base oil<br>64742-47-8               | 5000            | 2000              | 5.2                                         | No data available                        | No data available                    |
| Base oil<br>64742-48-9               | 6000            | 5000              | 8.5                                         | No data available                        | No data available                    |
| Base oil<br>64742-95-6               | 8400            | 2000              | No data available                           | No data available                        | No data available                    |
| Benzene, 1,2,4-trimethyl-<br>95-63-6 | 3280            | 3160              | 18                                          | No data available                        | No data available                    |
| Base oil<br>8042-47-5                | 5000            | No data available | No data available                           | No data available                        | No data available                    |

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                           |                                                                                                                                                                                                                                                                                     |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance.                                                                                                                                                                                                                            |
| <b>Inhalation</b>                         | Remove person to fresh air and keep comfortable for breathing. Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.                                                                                     |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.                                                                                                                                              |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.                                                                                                                                                                          |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).                                                                                                                                                                                       |

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

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symptoms</b>            | Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness and difficulty breathing. May cause gastrointestinal discomfort if consumed in large amounts. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation in susceptible persons. May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |
| <b>Effects of Exposure</b> | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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

|                        |                        |
|------------------------|------------------------|
| <b>Note to doctors</b> | Treat symptomatically. |
|------------------------|------------------------|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

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

**Specific hazards arising from the chemical** Containers can burst or explode when heated, due to excessive pressure build-up.

**Hazardous combustion products** Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

## **5.3. Advice for firefighters**

**Specific/special fire-fighting measures** Fires need to be assessed to determine appropriate protocols and safety measures for firefighting, including establishing safe zones, extinguishing media to be used, firefighter protection, and actions to control or extinguish the fire.

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# **SECTION 6: Accidental release measures**

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

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

## **6.2. Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Contain and collect spillage 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).

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

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

**Reference to other sections** For additional information see: Section 8: Exposure controls/personal protection; Section 12: Ecological information; Section 13: Disposal considerations.

# **SECTION 7: Handling and storage**

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

**Advice on safe handling** Avoid contact with used product. Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated

clothing and wash it before reuse. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

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

**Storage Conditions** Do not reuse empty containers. Store away from incompatible materials. See section 10 for more information. Keep containers tightly closed in a dry, cool and well-ventilated place.

**Storage class (TRGS 510)** LGK 10.

## 7.3. Specific end use(s)

**Specific use(s).** No information available.

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

**Exposure Limits** Under conditions which may generate mists, the following exposure limits are recommended: Long-term exposure limit (8-hour TWA): 5 mg/m<sup>3</sup>. Short-term exposure limit (15-minute): 10 mg/m<sup>3</sup>.

| Chemical name                    | European Union                                                                           | Austria                                                                                | Belgium                                                                                                                                             | Bulgaria                                                | Croatia                                   |
|----------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------|
| Benzene, 1,2,4-trimethyl-95-63-6 | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup>                                                | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup><br>STEL 30 ppm<br>STEL 150 mg/m <sup>3</sup> | -                                                                                                                                                   | TWA: 20 ppm<br>TWA: 100.0 mg/m <sup>3</sup>             | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup> |
| Chemical name                    | Cyprus                                                                                   | Czech Republic                                                                         | Denmark                                                                                                                                             | Estonia                                                 | Finland                                   |
| Base oil 64742-47-8              | -                                                                                        | -                                                                                      | -                                                                                                                                                   | TWA: 5 mg/m <sup>3</sup><br>STEL: 500 mg/m <sup>3</sup> | -                                         |
| Benzene, 1,2,4-trimethyl-95-63-6 | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup>                                                | TWA: 100 mg/m <sup>3</sup><br>Sk*<br>Ceiling: 250 mg/m <sup>3</sup>                    | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup><br>STEL: 40 ppm<br>STEL: 200 mg/m <sup>3</sup>                                                            | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup>               | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup> |
| Chemical name                    | France                                                                                   | Germany TRGS                                                                           | Germany DFG                                                                                                                                         | Greece                                                  | Hungary                                   |
| Base oil 64742-47-8              | -                                                                                        | TWA:                                                                                   | TWA: 5 mg/m <sup>3</sup><br>TWA: 50 ppm<br>TWA: 350 mg/m <sup>3</sup><br>Peak: 20 mg/m <sup>3</sup><br>Peak: 100 ppm<br>Peak: 700 mg/m <sup>3</sup> | -                                                       | -                                         |
| Base oil 64742-48-9              | -                                                                                        | -                                                                                      | TWA: 50 ppm<br>TWA: 300 mg/m <sup>3</sup><br>Peak: 100 ppm<br>Peak: 600 mg/m <sup>3</sup>                                                           | -                                                       | -                                         |
| Benzene, 1,2,4-trimethyl-95-63-6 | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup><br>STEL: 50 ppm<br>STEL: 250 mg/m <sup>3</sup> | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup>                                              | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup><br>Peak: 40 ppm<br>Peak: 200 mg/m <sup>3</sup>                                                            | TWA: 25 ppm<br>TWA: 125 mg/m <sup>3</sup>               | TWA: 100 mg/m <sup>3</sup><br>TWA: 20 ppm |
| Base oil 8042-47-5               | -                                                                                        | TWA: 5 mg/m <sup>3</sup>                                                               | TWA: 5 mg/m <sup>3</sup><br>Peak: 20 mg/m <sup>3</sup>                                                                                              | -                                                       | TWA: 5 mg/m <sup>3</sup>                  |
| Chemical name                    | Ireland                                                                                  | Italy MDLPS                                                                            | Italy AIDII                                                                                                                                         | Latvia                                                  | Lithuania                                 |
| Benzene, 1,2,4-trimethyl-95-63-6 | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup><br>STEL: 60 ppm<br>STEL: 300 mg/m <sup>3</sup> | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup>                                              | -                                                                                                                                                   | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup>               | -                                         |

|                                      |                                                                                                          |                                           |                                                                                                                       |                                                                                          |                                                                  |
|--------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Base oil<br>8042-47-5                | -                                                                                                        | -                                         | -                                                                                                                     | TWA: 5 mg/m <sup>3</sup>                                                                 | -                                                                |
| Chemical name                        | Luxembourg                                                                                               | Malta                                     | Netherlands                                                                                                           | Norway                                                                                   | Poland                                                           |
| Base oil<br>64742-48-9               | -                                                                                                        | -                                         | -                                                                                                                     | -                                                                                        | TWA: 300 mg/m <sup>3</sup><br>STEL: 900 mg/m <sup>3</sup>        |
| Benzene, 1,2,4-trimethyl-<br>95-63-6 | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup>                                                                | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup> | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup><br>STEL: 40 ppm<br>STEL: 200 mg/m <sup>3</sup>                              | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup><br>STEL: 150 mg/m <sup>3</sup><br>STEL: 30 ppm | TWA: 100 mg/m <sup>3</sup><br>STEL: 170 mg/m <sup>3</sup><br>Sk* |
| Chemical name                        | Portugal                                                                                                 | Romania                                   | Slovakia                                                                                                              | Slovenia                                                                                 | Spain                                                            |
| Benzene, 1,2,4-trimethyl-<br>95-63-6 | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup>                                                                | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup> | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup>                                                                             | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup><br>STEL: 40 ppm<br>STEL: 200 mg/m <sup>3</sup> | TWA: 20 ppm<br>TWA: 100 mg/m <sup>3</sup>                        |
| Base oil<br>8042-47-5                | -                                                                                                        | -                                         | -                                                                                                                     | TWA: 5 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup>                                   | -                                                                |
| Chemical name                        | Sweden                                                                                                   |                                           | Switzerland                                                                                                           |                                                                                          | United Kingdom                                                   |
| Base oil<br>64742-47-8               | -                                                                                                        |                                           | TWA: 50 ppm<br>TWA: 350 mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 700 mg/m <sup>3</sup> |                                                                                          | -                                                                |
| Base oil<br>64742-48-9               | -                                                                                                        |                                           | TWA: 50 ppm<br>TWA: 300 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 600 mg/m <sup>3</sup>                             |                                                                                          | -                                                                |
| Benzene, 1,2,4-trimethyl-<br>95-63-6 | NGV: 20 ppm<br>NGV: 100 mg/m <sup>3</sup><br>Bindande KGV: 35 ppm<br>Bindande KGV: 170 mg/m <sup>3</sup> |                                           | -                                                                                                                     |                                                                                          | -                                                                |
| Base oil<br>8042-47-5                | -                                                                                                        |                                           | TWA: 5 mg/m <sup>3</sup>                                                                                              |                                                                                          | -                                                                |

#### Biological occupational exposure limits

| Chemical name                        | Denmark | Finland | France                                                                                                               | Germany DFG                                                                                                                                                                                                                                                                                                                                                                                                                                 | Germany TRGS                                                                                                                                                                                                                                                                                                         |
|--------------------------------------|---------|---------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Benzene, 1,2,4-trimethyl-<br>95-63-6 | -       | -       | - urine (Total<br>Dimethylbenzoic<br>acids (after<br>hydrolysis) in urine) -<br>end of shift after<br>several shifts | 400 mg/g Creatinine<br>(urine -<br>Dimethylbenzoic<br>acid (sum of all<br>isomers after<br>hydrolysis) end of<br>shift)<br>400 mg/g Creatinine<br>(urine -<br>Dimethylbenzoic<br>acid (sum of all<br>isomers after<br>hydrolysis) for<br>long-term<br>exposures: at the<br>end of the shift after<br>several shifts)<br>400 mg/g Creatinine<br>- BAT (for long-term<br>exposures: at the<br>end of the shift after<br>several shifts) urine | 400 mg/g Creatinine<br>(urine -<br>Dimethylbenzoic<br>acid (sum of all<br>isomers after<br>hydrolysis) end of<br>shift)<br>400 mg/g Creatinine<br>(urine -<br>Dimethylbenzoic<br>acid (sum of all<br>isomers after<br>hydrolysis) for<br>long-term<br>exposures: at the<br>end of the shift after<br>several shifts) |

| Chemical name                        | Slovenia                                                                                                                                                                                                                          | Spain | Switzerland | United Kingdom |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|----------------|
| Benzene, 1,2,4-trimethyl-<br>95-63-6 | 400 mg/g Creatinine -<br>urine (Dimethylbenzoic<br>acid (all isomers after<br>hydrolysis)) - at the end of<br>the work shift; for<br>long-term exposure: at the<br>end of the work shift after<br>several consecutive<br>workdays | -     | -           | -              |

**Derived No Effect Level (DNEL) - Workers**

| Chemical name                                                                          | Oral | Dermal                      | Inhalation                                                                                                                       |
|----------------------------------------------------------------------------------------|------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Base oil<br>64742-54-7                                                                 | -    | 0.97 mg/kg bw/day [4] [6]   | 2.73 mg/m <sup>3</sup> [4] [6]<br>5.58 mg/m <sup>3</sup> [5] [6]                                                                 |
| Base oil<br>64742-48-9                                                                 | -    | -                           | 1286.4 mg/m <sup>3</sup> [4] [7]<br>837.5 mg/m <sup>3</sup> [5] [6]<br>1066.67 mg/m <sup>3</sup> [5] [7]                         |
| Base oil<br>64742-95-6                                                                 | -    | -                           | 1286.4 mg/m <sup>3</sup> [4] [7]<br>837.5 mg/m <sup>3</sup> [5] [6]<br>1066.67 mg/m <sup>3</sup> [5] [7]                         |
| Benzene, 1,2,4-trimethyl-<br>95-63-6                                                   | -    | 16171 mg/kg bw/day [4] [6]  | 100 mg/m <sup>3</sup> [4] [6]<br>100 mg/m <sup>3</sup> [4] [7]<br>100 mg/m <sup>3</sup> [5] [6]<br>100 mg/m <sup>3</sup> [5] [7] |
| Benzenamine, N-phenyl-, reaction<br>products with 2,4,4-trimethylpentene<br>68411-46-1 | -    | 0.08 mg/kg bw/day [4] [6]   | 0.6 mg/m <sup>3</sup> [4] [6]                                                                                                    |
| Benzene, 1,3,5-trimethyl-<br>108-67-8                                                  | -    | 16171 mg/kg bw/day [4] [6]  | 100 mg/m <sup>3</sup> [4] [6]<br>100 mg/m <sup>3</sup> [4] [7]<br>100 mg/m <sup>3</sup> [5] [6]<br>100 mg/m <sup>3</sup> [5] [7] |
| Base oil<br>8042-47-5                                                                  | -    | 217.05 mg/kg bw/day [4] [6] | 164.56 mg/m <sup>3</sup> [4] [6]                                                                                                 |
| Base oil<br>72623-86-0                                                                 | -    | 0.97 mg/kg bw/day [4] [6]   | 2.73 mg/m <sup>3</sup> [4] [6]<br>5.58 mg/m <sup>3</sup> [5] [6]                                                                 |
| Cumene<br>98-82-8                                                                      | -    | 15.4 mg/kg bw/day [4] [6]   | 100 mg/m <sup>3</sup> [4] [6]<br>250 mg/m <sup>3</sup> [5] [7]                                                                   |
| Dipropylene Glycol Monomethyl Ether<br>34590-94-8                                      | -    | 283 mg/kg bw/day [4] [6]    | 308 mg/m <sup>3</sup> [4] [6]                                                                                                    |
| Naphthalene<br>91-20-3                                                                 | -    | 3.57 mg/kg bw/day [4] [6]   | 25 mg/m <sup>3</sup> [4] [6]<br>25 mg/m <sup>3</sup> [5] [6]                                                                     |
| Xylene<br>1330-20-7                                                                    | -    | 212 mg/kg bw/day [4] [6]    | 221 mg/m <sup>3</sup> [4] [6]<br>442 mg/m <sup>3</sup> [4] [7]<br>221 mg/m <sup>3</sup> [5] [6]<br>442 mg/m <sup>3</sup> [5] [7] |
| Toluene<br>108-88-3                                                                    | -    | 384 mg/kg bw/day [4] [6]    | 192 mg/m <sup>3</sup> [4] [6]<br>384 mg/m <sup>3</sup> [4] [7]<br>192 mg/m <sup>3</sup> [5] [6]<br>384 mg/m <sup>3</sup> [5] [7] |
| Ethylbenzene<br>100-41-4                                                               | -    | 180 mg/kg bw/day [4] [6]    | 77 mg/m <sup>3</sup> [4] [6]<br>293 mg/m <sup>3</sup> [5] [7]                                                                    |

**Notes**

|     |                          |
|-----|--------------------------|
| [4] | Systemic health effects. |
| [5] | Local health effects.    |
| [6] | Long term.               |



[7] Short term.

#### Derived No Effect Level (DNEL) - General Public

| Chemical name                                                                          | Oral                       | Dermal | Inhalation                                                                                                                           |
|----------------------------------------------------------------------------------------|----------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------|
| Base oil<br>64742-54-7                                                                 | 0.74 mg/kg bw/day [4] [6]  | -      | 1.19 mg/m <sup>3</sup> [5] [6]                                                                                                       |
| Base oil<br>64742-47-8                                                                 | 18.75 mg/kg bw/day [4] [6] | -      | -                                                                                                                                    |
| Base oil<br>64742-48-9                                                                 | -                          | -      | 1152 mg/m <sup>3</sup> [4] [7]<br>178.57 mg/m <sup>3</sup> [5] [6]<br>640 mg/m <sup>3</sup> [5] [7]                                  |
| Base oil<br>64742-95-6                                                                 | -                          | -      | 1152 mg/m <sup>3</sup> [4] [7]<br>178.57 mg/m <sup>3</sup> [5] [6]<br>640 mg/m <sup>3</sup> [5] [7]                                  |
| Benzene, 1,2,4-trimethyl-<br>95-63-6                                                   | 15 mg/kg bw/day [4] [6]    | -      | 29.4 mg/m <sup>3</sup> [4] [6]<br>29.4 mg/m <sup>3</sup> [4] [7]<br>29.4 mg/m <sup>3</sup> [5] [6]<br>29.4 mg/m <sup>3</sup> [5] [7] |
| Benzenamine, N-phenyl-, reaction<br>products with 2,4,4-trimethylpentene<br>68411-46-1 | 0.04 mg/kg bw/day [4] [6]  | -      | 0.14 mg/m <sup>3</sup> [4] [6]                                                                                                       |
| Benzene, 1,3,5-trimethyl-<br>108-67-8                                                  | 15 mg/kg bw/day [4] [6]    | -      | 29.4 mg/m <sup>3</sup> [4] [6]<br>29.4 mg/m <sup>3</sup> [4] [7]<br>29.4 mg/m <sup>3</sup> [5] [6]<br>29.4 mg/m <sup>3</sup> [5] [7] |
| Base oil<br>8042-47-5                                                                  | 25 mg/kg bw/day [4] [6]    | -      | 34.78 mg/m <sup>3</sup> [4] [6]                                                                                                      |
| Base oil<br>72623-86-0                                                                 | 0.74 mg/kg bw/day [4] [6]  | -      | 1.19 mg/m <sup>3</sup> [5] [6]                                                                                                       |
| Cumene<br>98-82-8                                                                      | 5 mg/kg bw/day [4] [6]     | -      | 16.6 mg/m <sup>3</sup> [4] [6]                                                                                                       |
| Dipropylene Glycol Monomethyl Ether<br>34590-94-8                                      | 36 mg/kg bw/day [4] [6]    | -      | 37.2 mg/m <sup>3</sup> [4] [6]                                                                                                       |
| Xylene<br>1330-20-7                                                                    | 12.5 mg/kg bw/day [4] [6]  | -      | 65.3 mg/m <sup>3</sup> [4] [6]<br>260 mg/m <sup>3</sup> [4] [7]<br>65.3 mg/m <sup>3</sup> [5] [6]<br>260 mg/m <sup>3</sup> [5] [7]   |
| Toluene<br>108-88-3                                                                    | 8.13 mg/kg bw/day [4] [6]  | -      | 56.5 mg/m <sup>3</sup> [4] [6]<br>226 mg/m <sup>3</sup> [4] [7]<br>56.5 mg/m <sup>3</sup> [5] [6]<br>226 mg/m <sup>3</sup> [5] [7]   |
| Ethylbenzene<br>100-41-4                                                               | 1.6 mg/kg bw/day [4] [6]   | -      | 15 mg/m <sup>3</sup> [4] [6]                                                                                                         |

#### Notes

[4] Systemic health effects.  
 [5] Local health effects.  
 [6] Long term.  
 [7] Short term.

#### Predicted No Effect Concentration (PNEC)

| Chemical name                        | Freshwater | Freshwater<br>(intermittent release) | Marine water | Marine water<br>(intermittent release) | Air |
|--------------------------------------|------------|--------------------------------------|--------------|----------------------------------------|-----|
| Benzene, 1,2,4-trimethyl-<br>95-63-6 | 0.12 mg/L  | 0.12 mg/L                            | 0.12 mg/L    | -                                      | -   |

| Chemical name                                                                             | Freshwater  | Freshwater<br>(intermittent release) | Marine water | Marine water<br>(intermittent release) | Air |
|-------------------------------------------------------------------------------------------|-------------|--------------------------------------|--------------|----------------------------------------|-----|
| Benzenamine, N-phenyl-,<br>reaction products with<br>2,4,4-trimethylpentene<br>68411-46-1 | 0.0338 mg/L | 0.51 mg/L                            | 0.00338 mg/L | -                                      | -   |
| Benzene, 1,3,5-trimethyl-<br>108-67-8                                                     | 0.101 mg/L  | 0.101 mg/L                           | 0.101 mg/L   | -                                      | -   |
| Cumene<br>98-82-8                                                                         | 0.035 mg/L  | 0.012 mg/L                           | 0.0035 mg/L  | -                                      | -   |
| Base oil<br>64742-94-5                                                                    | 0.001 mg/L  | -                                    | 0.001 mg/L   | -                                      | -   |
| Dipropylene Glycol<br>Monomethyl Ether<br>34590-94-8                                      | 19 mg/L     | 190 mg/L                             | 1.9 mg/L     | -                                      | -   |
| Naphthalene<br>91-20-3                                                                    | 2.4 µg/L    | 20 µg/L                              | 2.4 µg/L     | -                                      | -   |
| Xylene<br>1330-20-7                                                                       | 0.327 mg/L  | 0.327 mg/L                           | 0.327 mg/L   | -                                      | -   |
| Toluene<br>108-88-3                                                                       | 0.68 mg/L   | 0.68 mg/L                            | 0.68 mg/L    | -                                      | -   |

| Chemical name                                                                             | Freshwater<br>sediment     | Marine sediment             | Sewage treatment | Soil                | Food chain      |
|-------------------------------------------------------------------------------------------|----------------------------|-----------------------------|------------------|---------------------|-----------------|
| Base oil<br>64742-54-7                                                                    | -                          | -                           | -                | -                   | 9.33 mg/kg food |
| Benzene, 1,2,4-trimethyl-<br>95-63-6                                                      | 13.56 mg/kg<br>sediment dw | 13.56 mg/kg<br>sediment dw  | 2.41 mg/L        | 2.34 mg/kg soil dw  | -               |
| Benzenamine, N-phenyl-,<br>reaction products with<br>2,4,4-trimethylpentene<br>68411-46-1 | 0.446 mg/kg<br>sediment dw | 0.0446 mg/kg<br>sediment dw | 10 mg/L          | 1.76 mg/kg soil dw  | -               |
| Benzene, 1,3,5-trimethyl-<br>108-67-8                                                     | 7.86 mg/kg<br>sediment dw  | 7.86 mg/kg<br>sediment dw   | 2.02 mg/L        | 1.34 mg/kg soil dw  | -               |
| Base oil<br>72623-86-0                                                                    | -                          | -                           | -                | -                   | 9.33 mg/kg food |
| Cumene<br>98-82-8                                                                         | 3.22 mg/kg<br>sediment dw  | 0.322 mg/kg<br>sediment dw  | 200 mg/L         | 0.624 mg/kg soil dw | -               |
| Dipropylene Glycol<br>Monomethyl Ether<br>34590-94-8                                      | 70.2 mg/kg<br>sediment dw  | 7.02 mg/kg<br>sediment dw   | 4168 mg/L        | 2.74 mg/kg soil dw  | -               |
| Naphthalene<br>91-20-3                                                                    | 67.2 µg/kg sediment<br>dw  | 67.2 µg/kg sediment<br>dw   | 2.9 mg/L         | 53.3 µg/kg soil dw  | -               |
| Xylene<br>1330-20-7                                                                       | 12.46 mg/kg<br>sediment dw | 12.46 mg/kg<br>sediment dw  | 6.58 mg/L        | 2.31 mg/kg soil dw  | -               |
| Toluene<br>108-88-3                                                                       | 16.39 mg/kg<br>sediment dw | 16.39 mg/kg<br>sediment dw  | 13.61 mg/L       | 2.89 mg/kg soil dw  | -               |

## 8.2. Exposure controls

### Engineering controls

Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

### Eye/face protection

If there is a risk of contact: Wear safety glasses with side shields (or goggles). Eye

protection must conform to standard EN 166.

|                                        |                                                                                                                                                                                                                                                                            |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hand protection</b>                 | If there is a risk of contact: Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Wear suitable gloves. Impervious gloves. Gloves must conform to standard EN 374. |
| <b>Skin and body protection</b>        | If there is a risk of contact: Wear suitable protective clothing. Long sleeved clothing.                                                                                                                                                                                   |
| <b>Respiratory protection</b>          | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.                                                                                                   |
| <b>General hygiene considerations</b>  | Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.                                                                                                                               |
| <b>Environmental exposure controls</b> | Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.                                                                                                                                                        |

## SECTION 9: Physical and chemical properties

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

|                                                |                                        |                              |
|------------------------------------------------|----------------------------------------|------------------------------|
| <b>Appearance</b>                              |                                        |                              |
| <b>Physical state</b>                          | Liquid                                 |                              |
| <b>Colour</b>                                  | Blue                                   |                              |
| <b>Odour</b>                                   | Mild hydrocarbon                       |                              |
| <b>Odour threshold</b>                         | No information available               |                              |
| <b>Property</b>                                | <b>Values</b>                          | <b>Remarks • Method</b>      |
| <b>Melting point / freezing point</b>          |                                        | No data available            |
| <b>Initial boiling point and boiling range</b> |                                        | No data available            |
| <b>Flammability</b>                            |                                        | No data available            |
| <b>Flammability Limit in Air</b>               |                                        |                              |
| Upper flammability or explosive limits         |                                        | No data available            |
| Lower flammability or explosive limits         |                                        | No data available            |
| <b>Flash point</b>                             | 86 °C                                  | Cleveland Open Cup ASTM D 92 |
| <b>Autoignition temperature</b>                |                                        | No data available            |
| <b>Decomposition temperature</b>               |                                        | No data available            |
| <b>pH</b>                                      |                                        | No data available            |
| pH (as aqueous solution)                       |                                        | No data available            |
| <b>Kinematic viscosity</b>                     | 32.9 cSt at 40 °C<br>6.6 cSt at 100 °C | ASTM D445                    |
| Dynamic viscosity                              |                                        | No data available            |
| <b>Water solubility</b>                        |                                        | No data available            |
| <b>Solubility(ies)</b>                         |                                        | No data available            |
| <b>Partition coefficient</b>                   |                                        | No data available            |
| <b>Vapour pressure</b>                         |                                        | No data available            |
| <b>Relative density</b>                        | 0.8639                                 | No data available            |
| Bulk density                                   |                                        | No data available            |
| Liquid Density                                 |                                        | No data available            |
| <b>Relative vapour density</b>                 |                                        | No data available            |
| <b>Particle characteristics</b>                |                                        |                              |
| Particle Size                                  |                                        | No data available            |
| Particle Size Distribution                     |                                        | No data available            |

### 9.2. Other information

|                   |                    |
|-------------------|--------------------|
| <b>Pour Point</b> | -51 °C [ASTM D 97] |
|-------------------|--------------------|

#### 9.2.1. Information with regards to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

No information available

**Fire Point** 86°C (COC) [ASTM D 92]

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** None under normal use conditions.

### 10.2. Chemical stability

**Stability** Stable under normal conditions.

#### Explosion data

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

### 10.4. Conditions to avoid

**Conditions to avoid** None known based on information supplied.

### 10.5. Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Ethers. Miscellaneous decomposition products.

## SECTION 11: Toxicological information

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

#### Information on likely routes of exposure

##### Product Information

|                     |                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness.               |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).                                              |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.            |

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and

sensitisation in susceptible persons. May cause gastrointestinal discomfort if consumed in large amounts. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness and difficulty breathing. Redness. May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

#### Acute toxicity

#### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

|                               |                  |
|-------------------------------|------------------|
| ATEmix (oral)                 | 331,800.00 mg/kg |
| ATEmix (dermal)               | 79,079.00 mg/kg  |
| ATEmix (inhalation-dust/mist) | 54.40 mg/l       |

#### Component Information

| Chemical name                        | Oral LD50            | Dermal LD50             | Inhalation LC50                      |
|--------------------------------------|----------------------|-------------------------|--------------------------------------|
| Base oil<br>64742-54-7               | > 15 g/kg ( Rat )    | > 5000 mg/kg ( Rabbit ) | -                                    |
| Base oil<br>64742-47-8               | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 5.2 mg/L ( Rat ) 4 h               |
| Base oil<br>64742-48-9               | > 6000 mg/kg ( Rat ) | > 5000 mg/kg ( Rabbit ) | > 8500 mg/m <sup>3</sup> ( Rat ) 4 h |
| Base oil<br>64742-95-6               | = 8400 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | = 3400 ppm ( Rat ) 4 h               |
| Benzene, 1,2,4-trimethyl-<br>95-63-6 | = 3280 mg/kg ( Rat ) | > 3160 mg/kg ( Rabbit ) | = 18 g/m <sup>3</sup> ( Rat ) 4 h    |
| Base oil<br>8042-47-5                | > 5000 mg/kg ( Rat ) | -                       | -                                    |

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                          |                                                                                        |
|------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. Causes skin irritation.        |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes serious eye irritation. |
| <b>Respiratory or skin sensitisation</b> | Based on available data, the classification criteria are not met.                      |
| <b>Germ cell mutagenicity</b>            | Based on available data, the classification criteria are not met.                      |

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

| Chemical name | European Union |
|---------------|----------------|
| Base oil      | Muta. 1B       |
| Base oil      | Muta. 1B       |

|                        |                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Carcinogenicity</b> | The supplier declares that it can be shown that the substance(s) contain less than 3% DMSO extract as measured by IP 346. |
|------------------------|---------------------------------------------------------------------------------------------------------------------------|

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | European Union |
|---------------|----------------|
| Base oil      | Not classified |
| Base oil      | Carc. 1B       |
| Base oil      | Carc. 1B       |

|                                 |                                                                   |
|---------------------------------|-------------------------------------------------------------------|
| <b>Reproductive toxicity</b>    | Based on available data, the classification criteria are not met. |
| <b>STOT - single exposure</b>   | May cause drowsiness or dizziness.                                |
| <b>STOT - repeated exposure</b> | Based on available data, the classification criteria are not met. |

**Aspiration hazard** Due to the viscosity, this product does not present an aspiration hazard.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 11.2.2. Other information

**Other adverse effects** No information available.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

**Ecotoxicity** Toxic to aquatic life with long lasting effects. Harmful to aquatic life.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name                        | Algae/aquatic plants | Fish                                                                                                                               | Toxicity to microorganisms | Crustacea                            |
|--------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------|
| Base oil<br>64742-54-7               | -                    | LC50: >5000mg/L (96h, Oncorhynchus mykiss)                                                                                         | -                          | EC50: >1000mg/L (48h, Daphnia magna) |
| Base oil<br>64742-47-8               | -                    | LC50: =45mg/L (96h, Pimephales promelas)<br>LC50: =2.2mg/L (96h, Lepomis macrochirus)<br>LC50: =2.4mg/L (96h, Oncorhynchus mykiss) | -                          | -                                    |
| Base oil<br>64742-48-9               | -                    | LC50: =2200mg/L (96h, Pimephales promelas)                                                                                         | -                          | -                                    |
| Base oil<br>64742-95-6               | -                    | LC50: =9.22mg/L (96h, Oncorhynchus mykiss)                                                                                         | -                          | EC50: =6.14mg/L (48h, Daphnia magna) |
| Benzene, 1,2,4-trimethyl-<br>95-63-6 | -                    | LC50: 7.19 - 8.28mg/L (96h, Pimephales promelas)                                                                                   | -                          | EC50: =6.14mg/L (48h, Daphnia magna) |
| Base oil<br>8042-47-5                | -                    | LC50: >10000mg/L (96h, Lepomis macrochirus)                                                                                        | -                          | -                                    |

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

#### Bioaccumulation

#### Component Information

| Chemical name             | Partition coefficient |
|---------------------------|-----------------------|
| Benzene, 1,2,4-trimethyl- | 3.63                  |
| Base oil                  | 6                     |

### 12.4. Mobility in soil

**Mobility in soil** No information available.

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

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

| Chemical name                        | PBT and vPvB assessment         |
|--------------------------------------|---------------------------------|
| Base oil<br>64742-54-7               | The substance is not PBT / vPvB |
| Base oil<br>64742-47-8               | The substance is not PBT / vPvB |
| Base oil<br>64742-48-9               | The substance is not PBT / vPvB |
| Base oil<br>64742-95-6               | The substance is not PBT / vPvB |
| Benzene, 1,2,4-trimethyl-<br>95-63-6 | The substance is not PBT / vPvB |
| Base oil<br>8042-47-5                | The substance is not PBT / vPvB |

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

**12.7. Other adverse effects**

**Other adverse effects** No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**Waste codes / waste designations according to EWC / AVV** 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****IMDG**

- 14.1 UN number or ID number** UN3082
- 14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Base oil, Benzene, 1,3,5-trimethyl-)
- 14.3 Transport hazard class(es)** 9
- 14.4 Packing group** III
- Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Base oil, Benzene, 1,3,5-trimethyl-), 9, III, Marine pollutant
- 14.5 Environmental hazards** Yes
- 14.6 Special Precautions for Users**
- Special Provisions** 274, 335, 969
- EmS-No.** F-A S-F
- 14.7 Maritime transport in bulk according to IMO instruments** No information available

**RID**

|                                    |                                                                                                            |
|------------------------------------|------------------------------------------------------------------------------------------------------------|
| 14.1 UN number or ID number        | UN3082                                                                                                     |
| 14.2 UN proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Base oil, Benzene, 1,3,5-trimethyl-)                 |
| 14.3 Transport hazard class(es)    | 9                                                                                                          |
| 14.4 Packing group                 | III                                                                                                        |
| Description                        | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Base oil, Benzene, 1,3,5-trimethyl-), 9, III |
| 14.5 Environmental hazards         | Yes                                                                                                        |
| 14.6 Special Precautions for Users |                                                                                                            |
| Special Provisions                 | 274, 335, 375, 601                                                                                         |
| Classification code                | M6                                                                                                         |

**ADR**

|                                    |                                                                                                            |
|------------------------------------|------------------------------------------------------------------------------------------------------------|
| 14.1 UN number or ID number        | UN3082                                                                                                     |
| 14.2 UN proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Base oil, Benzene, 1,3,5-trimethyl-)                 |
| 14.3 Transport hazard class(es)    | 9                                                                                                          |
| 14.4 Packing group                 | III                                                                                                        |
| Description                        | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Base oil, Benzene, 1,3,5-trimethyl-), 9, III |
| 14.5 Environmental hazards         | Yes                                                                                                        |
| 14.6 Special Precautions for Users |                                                                                                            |
| Special Provisions                 | 274, 335, 601, 375                                                                                         |
| Classification code                | M6                                                                                                         |
| Tunnel restriction code            | (-)                                                                                                        |

**ADN**

|                                    |                                                                                                            |
|------------------------------------|------------------------------------------------------------------------------------------------------------|
| 14.1 UN/ID no                      | UN3082                                                                                                     |
| 14.2 EPNN                          | ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Base oil, Benzene, 1,3,5-trimethyl-)                 |
| 14.3 Transport hazard class(es)    | 9                                                                                                          |
| 14.4 Packing group                 | III                                                                                                        |
| Description                        | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Base oil, Benzene, 1,3,5-trimethyl-), 9, III |
| 14.5 Environmental hazard          | Yes                                                                                                        |
| 14.6 Special Precautions for Users |                                                                                                            |
| Special Provisions                 | 274, 335, 375, 601                                                                                         |
| Classification code                | M6                                                                                                         |
| Equipment Requirements             | PP                                                                                                         |

**IATA**

|                                    |                                                                                                            |
|------------------------------------|------------------------------------------------------------------------------------------------------------|
| 14.1 UN number or ID number        | UN3082                                                                                                     |
| 14.2 UN proper shipping name       | Environmentally hazardous substances, liquid, n.o.s. (Base oil, Benzene, 1,3,5-trimethyl-)                 |
| 14.3 Transport hazard class(es)    | 9                                                                                                          |
| 14.4 Packing group                 | III                                                                                                        |
| Description                        | UN3082, Environmentally hazardous substances, liquid, n.o.s. (Base oil, Benzene, 1,3,5-trimethyl-), 9, III |
| 14.5 Environmental hazards         | Yes                                                                                                        |
| 14.6 Special Precautions for Users |                                                                                                            |
| Special Provisions                 | A97, A158, A197                                                                                            |
| ERG Code                           | 9L                                                                                                         |
| Note:                              | None                                                                                                       |

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

France



**Occupational Illnesses (R-463-3, France)**

| Chemical name                        | French RG number |
|--------------------------------------|------------------|
| Base oil<br>64742-47-8               | RG 84            |
| Base oil<br>64742-48-9               | RG 84            |
| Base oil<br>64742-95-6               | RG 84            |
| Benzene, 1,2,4-trimethyl-<br>95-63-6 | RG 84            |
| Base oil<br>8042-47-5                | RG 36bis         |

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorisations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name                       | Restricted substance per REACH Annex XVII                                                       | Substance subject to authorisation per REACH Annex XIV |
|-------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Base oil - 64742-54-7               | Use restricted. See entry 28.<br>Use restricted. See entry 75.                                  | -                                                      |
| Base oil - 64742-48-9               | Use restricted. See entry 28.<br>Use restricted. See entry 29.<br>Use restricted. See entry 75. | -                                                      |
| Base oil - 64742-95-6               | Use restricted. See entry 28.<br>Use restricted. See entry 29.<br>Use restricted. See entry 75. | -                                                      |
| Benzene, 1,2,4-trimethyl- - 95-63-6 | Use restricted. See entry 75.                                                                   | -                                                      |

**Persistent Organic Pollutants**

Not applicable

**Dangerous substance category per Seveso Directive (2012/18/EU)**

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

**Named dangerous substances per Seveso Directive (2012/18/EU)**

| Chemical name         | Lower-tier requirements (tons) | Upper-tier requirements (tons) |
|-----------------------|--------------------------------|--------------------------------|
| Base oil - 64742-48-9 | -                              | 25000                          |
| Base oil - 64742-95-6 | -                              | 25000                          |

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**EU - Plant Protection Products (1107/2009/EC)**

| Chemical name        | EU - Plant Protection Products (1107/2009/EC) |
|----------------------|-----------------------------------------------|
| Base oil - 8042-47-5 | Plant protection agent                        |

**International Inventories**

Contact supplier for inventory compliance status

## 15.2. Chemical safety assessment

### Chemical Safety Report

No information available

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapour  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H350 - May cause cancer  
H411 - Toxic to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorisation:  
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances  
STOT: Specific Target Organ Toxicity  
ATE: Acute Toxicity Estimate  
LC50: 50% Lethal Concentration  
LD50: 50% Lethal Dose

#### Legend Section 8: Exposure controls/personal protection

|         |                                    |      |                                  |
|---------|------------------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average)        | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value                | Sk*  | Skin designation                 |
| SCBA    | Self-contained breathing apparatus |      |                                  |

| Classification procedure                                        |                    |
|-----------------------------------------------------------------|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity                                             | Calculation method |
| Acute dermal toxicity                                           | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - vapour                              | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitisation                                       | Calculation method |
| Skin sensitisation                                              | Calculation method |
| Mutagenicity                                                    | Calculation method |
| Carcinogenicity                                                 | Calculation method |
| Reproductive toxicity                                           | Calculation method |
| STOT - single exposure                                          | Calculation method |
| STOT - repeated exposure                                        | Calculation method |
| Acute aquatic toxicity                                          | Calculation method |
| Chronic aquatic toxicity                                        | Calculation method |
| Aspiration hazard                                               | Calculation method |
| Ozone                                                           | Calculation method |

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)  
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
European Chemicals Agency (ECHA) (ECHA\_API)  
Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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**This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006**

#### **Disclaimer**

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**End of Safety Data Sheet**