

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

1.1. Product identifier

Product form : Mixture
Product name : 43840 - COMPRESSOR OIL VDL 150
Product code : 43840

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Industrial use, Professional use, Consumer use
Function or use category : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

77 Lubricants B.V.
NL- 1761 JA
The Netherlands
T +31 (0)78 6527652
technical@77lubricants.nl - www.77lubricants.nl

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|--------------------------------------------------------------------------------------------------|----------------------------|------------------|--------------------------------------|
| United Kingdom | Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road SE14 5ER | +44 20 7188 7188 | |
| United Kingdom | National Poisons Information Service (Belfast Centre) Royal Victoria Hospital | Grosvenor Road BT12 6BA | 0344 892 0111 | Only for healthcare professionals |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment – Chronic Hazard, H412
Category 3
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

Signal word (CLP) : -
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP) : P273 - Avoid release to the environment.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

| Component | |
|------------------------------------------------------------------------------------|-----------------------------------------------|
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1) | vPvB: not relevant – no registration required |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit | CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627-25 | $\geq 55 - < 75$ | Not classified |
| Residual oils (petroleum), solvent-dewaxed substance with national workplace exposure limit(s) (NL) | CAS-No.: 64742-62-7 EC-No.: 265-166-0 EC Index-No.: 649-471-00-X REACH-no: 01-2119480472-38 | $\geq 25 - < 45$ | Not classified |
| 2,6-Di-tert-butylphenol substance with a Community workplace exposure limit | CAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822-33 | $\geq 0.1 - < 0.3$ | Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | CAS-No.: 68411-46-1 EC-No.: 270-128-1 REACH-no: 01-2119491299-23 | $\geq 0.1 - < 0.3$ | Repr. 2, H361f |
| Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40 °C). It contains relatively few normal paraffins.] substance with national workplace exposure limit(s) (BE, BG, CZ, DK, ES, FI, GB, GR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SK, IS, NO, CH); substance with a Community workplace exposure limit | CAS-No.: 64742-52-5 EC-No.: 265-155-0 EC Index-No.: 649-465-00-7 REACH-no: 01-2119467170-45 | < 0.1 | Not classified |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| diphenylamine substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, IE, IT, LT, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit | CAS-No.: 122-39-4 EC-No.: 204-539-4 EC Index-No.: 612-026-00-5 REACH-no: 01-2119488966-13 | < 0.1 | Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits (%) |
|-------------------------|----------------------------------------------------------------------|------------------------------------|
| 2,6-Di-tert-butylphenol | CAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822-33 | (35 ≤ C < 100) Skin Irrit. 2, H315 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|------------------------------------------------------------------|
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |

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

No additional 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 | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a water jet since it may cause the fire to spread. |

5.2. Special hazards arising from the substance or mixture

| | |
|--------------------------------------------------|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--------------------------------------------------|--------------------------------|

5.3. Advice for firefighters

| | |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary measures fire | : Exercise caution when fighting any chemical fire. |
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|----------------------------------------------------------|
| General measures | : Avoid spilling the product, as this might cause falls. |
|------------------|----------------------------------------------------------|

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6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes.
Handling temperature : $\leq 40\text{ }^{\circ}\text{C}$
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation.
Storage conditions : Store in a well-ventilated place. Keep cool.
Storage temperature : $\leq 40\text{ }^{\circ}\text{C}$
Storage area : Store in a well-ventilated place. Store away from heat.
Special rules on packaging : Keep only in original container. Store in a closed container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| 2,6-Di-tert-butylphenol (128-39-2) | |
|----------------------------------------------------|-----------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 3.5 mg/m ³ |
| diphenylamine (122-39-4) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 10 mg/m ³ |
| IOEL STEL | 20 mg/m ³ |

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| diphenylamine (122-39-4) | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 10 mg/m ³ |
| WEL STEL (OEL STEL) | 20 mg/m ³ |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 5 mg/m ³ |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 5 mg/m ³ |
| Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40 °C). It contains relatively few normal paraffins.] (64742-52-5) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 5 mg/m ³ |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 5 mg/m ³ |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

| Eye protection | | | |
|----------------|----------------------|-----------------|----------|
| Type | Field of application | Characteristics | Standard |
| Safety glasses | Droplet | clear | EN 166 |

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8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

| Hand protection | | | | | |
|-----------------|----------------------|-------------------|----------------|-------------|------------|
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | >0.35 | | EN ISO 374 |

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------------------------------------|----------------------------------------------|
| Physical state | : Liquid |
| Colour | : Not available |
| Odour | : Not available |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : -26 °C (ASTM D7346) |
| Boiling point | : Not available |
| Flammability | : Non flammable. |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : > 201 °C (ASTM D92) |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : 141 mm ² /s @ 40°C (ASTM D7042) |
| Solubility | : insoluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : 877 kg/m ³ @ 15°C (ASTM D4052) |
| Relative density | : Not available |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Residual oils (petroleum), solvent-dewaxed (64742-62-7)

| | |
|-------------------|--------------|
| LD50 oral (rat) | > 5000 mg/kg |
| LD50 dermal (rat) | > 2000 mg/kg |

2,6-Di-tert-butylphenol (128-39-2)

| | |
|----------------------|------------------------------------------------------------------|
| LD50 oral (rat) | > 5000 mg/kg bodyweight OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal (rabbit) | > 2000 mg/kg OECD Guideline 402 (Acute Dermal Toxicity) |

diphenylamine (122-39-4)

| | |
|----------------------|--------------|
| LD50 oral (rat) | > 800 mg/kg |
| LD50 dermal (rabbit) | > 5000 mg/kg |

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

| | |
|---------------------------------------------|------------------------------------------------------|
| LD50 oral (rat) | > 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test |
| LD50 dermal (rabbit) | > 2000 mg/kg 402 Acute Dermal Toxicity Test |
| LC50 inhalation (rat) (mg/l) | > 5000 mg/l/4h |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | > 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test |

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)

| | |
|-------------------|---------------------------------------------------------|
| LD50 oral (rat) | > 5000 mg/kg OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal (rat) | > 2000 mg/kg OECD Guideline 402 (Acute Dermal Toxicity) |

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Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40 °C). It contains relatively few normal paraffins.] (64742-52-5)

| | |
|---------------------------------------------|----------------------------------|
| LD50 oral (rat) | > 5000 mg/kg bodyweight OECD 401 |
| LD50 dermal (rabbit) | > 5000 mg/kg bodyweight OECD 402 |
| LC50 inhalation (rat) (Dust/Mist - mg/l/4h) | 5.53 mg/l/4h OECD 403 |

| | |
|-----------------------------------|------------------|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |

2,6-Di-tert-butylphenol (128-39-2)

| | |
|------------------------------------------------|----------------------|
| NOAEL (subchronic, oral, animal/male, 90 days) | 270 mg/kg bodyweight |
|------------------------------------------------|----------------------|

diphenylamine (122-39-4)

| | |
|------------------------|--------------------------------------------------------------------|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
|------------------------|--------------------------------------------------------------------|

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

| | |
|----------------------------|-----------------------------------------------------------------------------------|
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 |
|----------------------------|-----------------------------------------------------------------------------------|

| | |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

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| | |
|----------------------|--------------------------------------------|
| Viscosity, kinematic | 141 mm ² /s @ 40°C (ASTM D7042) |
|----------------------|--------------------------------------------|

Residual oils (petroleum), solvent-dewaxed (64742-62-7)

| | |
|----------------------|------------------------------|
| Viscosity, kinematic | 490 mm ² /s @40°C |
|----------------------|------------------------------|

2,6-Di-tert-butylphenol (128-39-2)

| | |
|----------------------|----------------|
| Viscosity, kinematic | Not applicable |
|----------------------|----------------|

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

| | |
|----------------------|----------------------------------------|
| Viscosity, kinematic | 98 (98 – 108) mm ² /s @40°C |
|----------------------|----------------------------------------|

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)

| | |
|----------------------|--------------------------------|
| Viscosity, kinematic | 355.7 mm ² /s @40°C |
|----------------------|--------------------------------|

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

| | |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects. |

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| 2,6-Di-tert-butylphenol (128-39-2) | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| LC50 - Fish [1] | 1.4 mg/l Pimephales promelas (OECD 204) |
| EC50 - Crustacea [1] | 0.45 mg/l Daphnia magna |
| EC50 72h - Algae [1] | 1.4 mg/l Pseudokirchneriella subcapitata (US-EPA) |
| LOEC (chronic) | 0.086 mg/l Daphnia magna Duration: '21 d' |
| NOEC chronic crustacea | 0.035 mg/l Daphnia magna (OECD 211) (21d) |
| NOEC chronic algae | 0.64 mg/l Pseudokirchneriella subcapitata (96h) |
| diphenylamine (122-39-4) | |
| LC50 - Fish [1] | 3.79 mg/l Pimephales promelas |
| EC50 - Crustacea [1] | 2 mg/l Daphnia magna (OECD 202) |
| EC50 72h - Algae [1] | 2.17 mg/l Desmodesmus subspicatus (OECD 201) |
| NOEC chronic fish | 0.625 mg/l Oryzias latipes (21d) |
| NOEC chronic crustacea | 0.125 mg/l Daphnia magna (OECD Test Guideline 202) (21d) |
| NOEC chronic algae | 0.027 mg/l Pseudokirchnerella subcapitata (72h) |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
| LC50 - Fish [1] | > 100 mg/l Pimephales promelas |
| EC50 - Crustacea [1] | > 10000 mg/l Daphnia magna |
| EC50 72h - Algae [1] | > 100 mg/l Pseudokirchneriella subcapitat |
| NOEC chronic fish | 1000 mg/l Oncorhynchus mykiss (14d) |
| NOEC chronic crustacea | 10 mg/l Daphnia magna (21d) |
| NOEC chronic algae | ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1) | |
| LC50 - Fish [1] | > 100 mg/l Danio rerio (OECD 203) |
| EC50 - Crustacea [1] | > 51 mg/l Daphnia magna (OECD 202) |
| EC50 72h - Algae [1] | > 100 mg/l Desmodesmus subspicatus (green algae) (OECD 201) |
| NOEC chronic crustacea | > 1.69 mg/l Daphnia magna (OECD 211) (21d) |
| NOEC chronic algae | > 10 mg/l Desmodesmus subspicatus (green algae) (OECD Test Guideline 201) 72h |
| Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40 °C). It contains relatively few normal paraffins.] (64742-52-5) | |
| LC50 - Fish [1] | > 100 mg/l Pimephales promelas |
| EC50 - Crustacea [1] | > 10000 mg/l |
| NOEC chronic fish | > 1000 mg/l |
| NOEC chronic crustacea | 10 mg/l Daphnia magna OECD 211 (21d) |
| NOEC chronic algae | > 100 mg/l |

12.2. Persistence and degradability

| 2,6-Di-tert-butylphenol (128-39-2) | |
|-------------------------------------------|----------------------------|
| Biodegradation | 12 – 24 % OECD 302 C (28d) |

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| diphenylamine (122-39-4) | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Biodegradation | 26 % OECD TG 301 D (28d) |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 31 % OECD TG 301 F (28d) |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1) | |
| Persistence and degradability | Not biodegradable. |
| Biodegradation | 1 % OECD 301 B (28d) |
| Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40 °C). It contains relatively few normal paraffins.] (64742-52-5) | |
| Biodegradation | 31 % 28d |

12.3. Bioaccumulative potential

| Residual oils (petroleum), solvent-dewaxed (64742-62-7) | |
|-------------------------------------------------------------------------------------------|------------------------|
| Partition coefficient n-octanol/water (Log Pow) | > 3.5 |
| 2,6-Di-tert-butylphenol (128-39-2) | |
| Partition coefficient n-octanol/water (Log Kow) | 4.5 |
| diphenylamine (122-39-4) | |
| Bioconcentration factor (BCF REACH) | 151.36 |
| Partition coefficient n-octanol/water (Log Kow) | 3.4 |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.9 – 6 |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 6.66 @ 23°C (OECD 117) |

12.4. Mobility in soil

| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1) | |
|-------------------------------------------------------------------------------------------|------------------------|
| Ecology - soil | Adsorbs into the soil. |

12.5. Results of PBT and vPvB assessment

| Component | |
|------------------------------------------------------------------------------------|-----------------------------------------------|
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1) | vPvB: not relevant – no registration required |

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| European List of Waste (LoW, EC 2000/532) | : 13 02 00 - waste engine, gear and lubricating oils |
| HP Code | : HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|-----------------------------------------|-----------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 14.1. UN number or ID number | | | | |
| Not regulated for transport | | | | |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): Diphenylamine (122-39-4)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes | | | |
|-----------------------|----------------------------|----------|----------|
| Section | Changed item | Change | Comments |
| | Revision date | Modified | |
| | Supersedes | Modified | |
| 9.1 | Flash point | Modified | |
| 9.1 | Density | Modified | |
| 9.1 | Freezing point | Modified | |
| 9.1 | Viscosity, kinematic | Modified | |
| 16 | Abbreviations and acronyms | Modified | |

Abbreviations and acronyms:

| | |
|-------|---------------------------------------------------------------------------------------------------|
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| WGK | Water Hazard Class |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |

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| Abbreviations and acronyms: | |
|-----------------------------|-------------------------------------------------------------------------------------|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

| Full text of H- and EUH-statements: | |
|-------------------------------------|-------------------------------------|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--------------------------------------------------------------------|
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H315 | Causes skin irritation. |
| H331 | Toxic if inhaled. |
| H361f | Suspected of damaging fertility. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.