# Lucas Synthetic SAE 80W-85 Motorcycle Transmission Oil

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 6/29/2016 Version: 1.0

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

### 1.1. Product identifier

Product form : Mixture

Product name : Lucas Synthetic SAE 80W-85 Motorcycle Transmission Oil

Product code : . 10778, 40778

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Lubricant

#### 1.2.2. Uses advised against

No additional information available

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

Lucas Oil Products, Inc
302 North Sheridan Street
92880-2067 Corona, California - USA
T (951) 270-0154 - F (951) 270-1902
GHewgill@lucasoil.com - www.LucasOil.com

### 1.4. Emergency telephone number

Emergency number : (951) 493-1149 (951) 847-5949 7:00A.M. to 5:00P.M. Monday thru Friday

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Aspiration hazard, Category 1 H304

Full text of hazard classes and H-statements : see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP) :

GHS08

Signal word (CLP) : Danger

Hazardous ingredients : 1-Decene, homopolymer, hydrogenated; Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%)

Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways

Precautionary statements (CLP) : P301+P310 - If swallowed: Immediately call a poison center or doctor
P331 - Do NOT induce vomiting
P405 - Store locked up
P501 - Dispose of contents/container to an authorised waste collection point

Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS : 10% of the mixture consists of ingredient(s) of unknown acute oral toxicity
10% of the mixture consists of ingredient(s) of unknown acute dermal toxicity
10% percent of the mixture consists of ingredient(s) of unknown acute inhalation (dust/mist) toxicity

Unknown hazards to the aquatic environment (CLP) : Contains 10 % of components with unknown hazards to the aquatic environment

### 2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| 1-Decene, homopolymer, hydrogenated | (CAS No) 68037-01-4<br>(EC no) 212-819-2<br>(REACH-no) 01-2119486452-34 | 20 – 40 | Asp. Tox. 1, H304 |
| Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%)<br>(Note L) | (CAS No) 64742-54-7<br>(EC no) 265-157-1<br>(EC index no) 649-467-00-8<br>(REACH-no) 01-2119484627-25 | 1 – 3 | Asp. Tox. 1, H304 |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | (CAS No) 68649-42-3<br>(EC no) 272-028-3 | 0.5 – 2.5 | Eye Irrit. 2, H319<br>Aquatic Acute 1, H400<br>Aquatic Chronic 3, H412 |
| benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters | (CAS No) 125643-61-0<br>(EC no) 406-040-9<br>(EC index no) 607-530-00-7 | 0.3 – 1.5 | Aquatic Chronic 4, H413 |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | (CAS No) 68411-46-1<br>(EC no) 270-128-1 | 0.3 – 1.5 | STOT RE 2, H373<br>Aquatic Chronic 3, H412 |
| Diphenylamine | (CAS No) 122-39-4<br>(EC no) 204-539-4<br>(EC index no) 612-026-00-5 | 0.01 – 0.2 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation:dust,mist), H331<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with mild soap and water.

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.

First-aid measures after ingestion : Do NOT induce vomiting. Get medical advice/attention.

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

Symptoms/injuries after inhalation : Inhalation of vapours may cause respiratory irritation.

Symptoms/injuries after ingestion : Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities. May be fatal if swallowed and enters airways.

### 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 : Carbon dioxide. Dry chemical. Foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Burning produces irritating, toxic and noxious fumes.

Explosion hazard : Product is not explosive.

### 5.3. Advice for firefighters

Firefighting instructions : Cool adjacent structures and containers with water spray to protect and prevent ignition. Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. EN469.

## SECTION 6: Accidental release measures

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

General measures : Avoid all eye and skin contact and do not breathe vapour and mist.

#### 6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Refer to section 8.2.

Emergency procedures : Ventilate area. Stop leak if safe to do so.

### 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. Do not allow minor leaks or spills to accumulate on walking surfaces.

Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container.

### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

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

Storage conditions : Keep only in the original container. Keep container closed when not in use.

Incompatible products : Strong acids. Strong bases. Strong oxidizers.

Heat and ignition sources : Keep away from heat, sparks and flame.

Prohibitions on mixed storage : Incompatible materials.

Storage area : Store in dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

Lubricant.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| **Diphenylamine (122-39-4)** | | |
|---|---|---|
| Austria | MAK (mg/m³) | 5 mg/m³ (einatembare Fraktion), (H) |
| Austria | MAK (ppm) | 0.7 ppm (einatembare Fraktion), (H) |
| Austria | MAK Short time value (mg/m³) | 10 mg/m³ (einatembare Fraktion) max. 4x15 min./Schicht, (H) |
| Austria | MAK Short time value (ppm) | 1.4 ppm (einatembare Fraktion) max. 4x15 min./Schicht, (H) |
| Belgium | Limit value (mg/m³) | 10 mg/m³ |
| Czech Republic | Expoziční limity (PEL) (mg/m³) | 10 mg/m³ |
| Czech Republic | Expoziční limity (NPK-P) (mg/m³) | 20 mg/m³ |
| Czech Republic | Remark (CZ) | D, P |
| Denmark | Grænseværdie (langvarig) (mg/m³) | 5 mg/m³ |
| Denmark | Grænseværdie (kortvarig) (mg/m³) | 10 mg/m³ |
| Finland | HTP-arvo (8h) (mg/m³) | 5 mg/m³ |
| Finland | HTP-arvo (15 min) | 10 mg/m³ |
| France | VME (mg/m³) | 10 mg/m³ |
| Ireland | OEL (8 hours ref) (mg/m³) | 10 mg/m³ |
| Ireland | OEL (15 min ref) (mg/m3) | 20 mg/m³ |
| Lithuania | IPRV (mg/m³) | 4 mg/m³ |
| Lithuania | TPRV (mg/m³) | 12 mg/m³ |
| Spain | VLA-ED (mg/m³) | 10 mg/m³ |
| Spain | Notes | s |
| Sweden | nivågränsvärde (NVG) (mg/m³) | 4 mg/m³ |

| Diphenylamine (122-39-4) | | |
|---|---|---|
| Sweden | kortidsvärde (KTV) (mg/m³) | 12 mg/m³ |
| United Kingdom | WEL TWA (mg/m³) | 10 mg/m³ |
| United Kingdom | WEL STEL (mg/m³) | 20 mg/m³ |
| Norway | Grenseverdier (AN) (mg/m³) | 5 mg/m³ |
| Switzerland | VME (mg/m³) | 10 mg/m³ |
| Switzerland | Remark (CH) | (inhalable aerosol) |

### 8.2. Exposure controls

Appropriate engineering controls : Avoid splashing. Ensure good ventilation of the work station.

Hand protection:

Wear suitable gloves. nitrile rubber gloves. EN374

Eye protection:

In case of splashing or aerosol production: protective goggles. EN166

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges. EN 12083

Environmental exposure controls : Prevent leakage or spillage. Prevent contaminated water run-off.

Other information : Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| Physical state | : Liquid |
| Colour | : red. |
| Odour | : No data available |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 0.854 |
| Density | : 7.119 lb/gal |
| Solubility | : No data available |
| Log Pow | : No data available |
| Viscosity, kinematic | : 12.5 - 16.29 cSt @ 100 °C |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

### 10.6. Hazardous decomposition products

Burning produces irritating, toxic and noxious fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| **1-Decene, homopolymer, hydrogenated (68037-01-4)** | |
|---|---|
| LD50 oral rat | > 5000 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | > 5.2 mg/l/4h |

| **Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)** | |
|---|---|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 5.53 mg/l/4h |

| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)** | |
|---|---|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

| **Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)** | |
|---|---|
| LD50 oral rat | 26100 mg/kg |

| **benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters (125643-61-0)** | |
|---|---|
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

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

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

| **Lucas Synthetic SAE 80W-85 Motorcycle Transmission Oil** | |
|---|---|
| Viscosity, kinematic | 12.5 - 16.29 mm²/s @ 100 °C |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : No ecotoxicological data about this product are known.

| **1-Decene, homopolymer, hydrogenated (68037-01-4)** | |
|---|---|
| LC50 fish 1 | > 750 mg/l |
| EC50 Daphnia 1 | 190 mg/l |
| NOEC (acute) | 1000 mg/l |

| **Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)** | |
|---|---|
| EC50 Daphnia 1 | > 10000 mg/l |

| **Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)** | |
|---|---|
| LC50 fish 1 | 10 (10 - 35) mg/l Pimephales promelas OECD GDL 203 (water accomodated fraction) |
| EC50 Daphnia 1 | 1 (1 - 1.5) mg/l OECD GDL 202 (water accomodated fraction) |
| NOEC (acute) | 10 mg/l Pimephales promelas OECD GDL 203 (water accomodated fraction) |

| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3) | |
|---|---|
| NOEC chronic crustacea | < 1 mg/l |

| benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters (125643-61-0) | |
|---|---|
| LC50 fish 1 | > 74 mg/l |
| EC50 Daphnia 1 | 4.3 mg/l |
| ErC50 (algae) | > 3 mg/l |
| NOEC (acute) | 100 mg/l |

| Diphenylamine (122-39-4) | |
|---|---|
| LC50 fish 1 | 4.14 ppm |
| EC50 Daphnia 1 | 2.46 mg/l |
| EC50 other aquatic organisms 1 | 0.36 mg/l |

### 12.2. Persistence and degradability

| Lucas Synthetic SAE 80W-85 Motorcycle Transmission Oil | |
|---|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |

| 1-Decene, homopolymer, hydrogenated (68037-01-4) | |
|---|---|
| Persistence and degradability | Readily biodegradable. |

| benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters (125643-61-0) | |
|---|---|
| Persistence and degradability | Not readily biodegradable. May cause long-term adverse effects in the environment. |

| Diphenylamine (122-39-4) | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Lucas Synthetic SAE 80W-85 Motorcycle Transmission Oil | |
|---|---|
| Bioaccumulative potential | Not established. |

| 1-Decene, homopolymer, hydrogenated (68037-01-4) | |
|---|---|
| Bioaccumulative potential | Not expected to bioaccumulate. |

| benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters (125643-61-0) | |
|---|---|
| Bioaccumulative potential | Bioaccumulative potential. Not established. |

| Diphenylamine (122-39-4) | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

| Lucas Synthetic SAE 80W-85 Motorcycle Transmission Oil | |
|---|---|
| Ecology - soil | No additional information available. |

### 12.5. Results of PBT and vPvB assessment

| Lucas Synthetic SAE 80W-85 Motorcycle Transmission Oil | |
|---|---|
| PBT: not yet assessed | |
| vPvB: not yet assessed | |

| Component | |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Other adverse effects

Additional information : No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

European List of Waste (LoW) code : For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR) : Not regulated.

UN-No. (IMDG) : Not regulated.

UN-No. (IATA) : Not regulated.

UN-No. (ADN) : Not regulated.

UN-No. (RID) : Not regulated.

**14.2. UN proper shipping name**

Proper Shipping Name (ADR) : Not regulated.

Proper Shipping Name (IMDG) : Not regulated.

Proper Shipping Name (IATA) : Not regulated.

Proper Shipping Name (ADN) : Not regulated.

Proper Shipping Name (RID) : Not regulated.

**14.3. Transport hazard class(es)**

**ADR**

Transport hazard class(es) (ADR) : Not regulated.

**IMDG**

Transport hazard class(es) (IMDG) : Not regulated.

**IATA**

Transport hazard class(es) (IATA) : Not regulated.

**ADN**

Transport hazard class(es) (ADN) : Not regulated.

**RID**

Transport hazard class(es) (RID) : Not regulated.

**14.4. Packing group**

Packing group (ADR) : Not regulated.

Packing group (IMDG) : Not regulated.

Packing group (IATA) : Not regulated.

Packing group (ADN) : Not regulated.

Packing group (RID) : Not regulated.

**14.5. Environmental hazards**

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

**14.6. Special precautions for user**

**- Overland transport**

Not regulated.

**- Transport by sea**

Not regulated.

**- Air transport**

Not regulated.

**- Inland waterway transport**

Not regulated.

**- Rail transport**

Not regulated.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable

## SECTION 15: Regulatory information

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

**15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

**Germany**

| | | |
|---|---|---|
| VwVwS Annex reference | : | Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4) |
| 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV | : | Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) |

**Netherlands**

| | | |
|---|---|---|
| SZW-lijst van kankerverwekkende stoffen | : | Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%),Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts,Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene are listed |
| SZW-lijst van mutagene stoffen | : | Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%),Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts,Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding | : | None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid | : | None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling | : | None of the components are listed |

**Denmark**

| | | |
|---|---|---|
| Recommendations Danish Regulation | : | Young people below the age of 18 years are not allowed to use the product<br>Pregnant/breastfeeding women working with the product must not be in direct contact with the product<br>The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal |

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Abbreviations and acronyms:

| | |
|---|---|
| | ATE: Acute Toxicity Estimate |
| | CAS (Chemical Abstracts Service) number |
| | CLP: Classification, Labelling, Packaging. |
| | EC50: Environmental Concentration associated with a response by 50% of the test population. |
| | European List of Waste (LoW) code |
| | GHS: Globally Harmonized System (of Classification and Labeling of Chemicals). |
| | LD50: Lethal Dose for 50% of the test population |
| | PBT: Persistent, Bioaccumulative, Toxic |
| | TWA: Time Weighted Average |
| vPvB | Very Persistent and Very Bioaccumulative |

| | | |
|---|---|---|
| Data sources | : | European Chemicals Agency (ECHA) C&L Inventory database. Accessed at http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database.<br>Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.<br>REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.<br>United Nations Economic Commission for Europe: About the GHS. Accessed at http://www.unece.org/trans/danger/publi/ghs/ghs_welcome_e.html. |
| Other information | : | None. |

Full text of H- and EUH-statements:

| | |
|---|---|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |

| | |
|---|---|
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Aquatic Chronic 4 | Hazardous to the aquatic environment — Chronic Hazard, Category 4 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| H301 | Toxic if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H311 | Toxic in contact with skin |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| 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 |
| H413 | May cause long lasting harmful effects to aquatic life |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| | | |
|---|---|---|
| Asp. Tox. 1 | H304 | Calculation method |


**SDS prepared by:** The Redstone Group, LLC.
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*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*