

SAFETY DATA SHEET



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

MOL-LUB Ltd.

Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Version: 2

Latest revision: 13. 03. 2019

Date of issue: 17. 05. 2016

Page: 1/(14)

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

1.1 Product identifier:

MOL Dynamic Star PC 0W-30 synthetic motor oil

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

Relevant identified uses: synthetic motor oil.

Uses advised against: no data.

1.3 Details of the supplier of the safety data sheet:

MOL-LUB Lubricant Production Distribution and Service Ltd.

H-2931 Almásfüzitő, Fő út 21., Hungary

Phone / Fax: +36 34 526 330 / +36 34 526 391

E-mail: kenoanyag@mol.hu

Request SDS of:

MOL-LUB Lubricant Production Distribution and Service Ltd.

Customer Service Center

H-2931 Almásfüzitő, Fő út 21., Hungary

Phone / Fax: +36 80 201 296 / +36 34 348 010

Responsible for SDS:

MOL-LUB Ltd. Csaba Horváth, head of SD, HSE & Business Support

Phone: +36 34 526 343; Mobile: +36 20 474 2644

e-mail: csahorvath@mol.hu

1.4 Emergency telephone number

Emergency telephone (on workdays: 07-15²⁰ h (CET)): +36 34 526 210

Health Toxicological Information Service (ETTSZ 1096 Budapest, Nagyvárad tér 2.)

Tel.: +36 80 201 199 (0-24 h, free number).

National Health Toxicological Information Service:

SECTION 2 Hazards identification

2.1 Classification of the mixture or substance

Hazard Class and Category:

Aquatic Chronic 3.

Hazard statement:

H412

Harmful to aquatic life with long lasting effects.

SAFETY DATA SHEET



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

MOL-LUB Ltd.

Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Version: 2

Latest revision: 13. 03. 2019

Date of issue: 17. 05. 2016

Page: 2/(14)

2.2 Label elements

Product identification: Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Hazardous components: -

GHS Pictogram: Not required.

Signal word: Not required.

Hazard statement:

H412 Harmful to aquatic life with long lasting effects.

Supplemental hazard information: -

Precautionary statements – General: -

Precautionary statements – Prevention:

P273 Avoid release to the environment.

Precautionary statements – Response: -

Precautionary statements – Storage: -

Precautionary statements – Disposal:

P501 Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile warning of danger: Not required.

Transport classification: see section 14.

2.3 Other hazards

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006.

SAFETY DATA SHEET



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

MOL-LUB Ltd.

Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Version: 2

Latest revision: 13. 03. 2019

Date of issue: 17. 05. 2016

Page: 3/(14)

SECTION 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: Mixture of refined mineral base oils and hydrotreated neutral oil containing additives.

Component(s) / Hazardous component(s):

Name	EU number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Dec-1-ene, trimers, hydrogenated REACH Registr.Nr.: 01-2119493949-12	500-393-3	157707-86-3	Asp. Tox. 1	H304	max. 40
Distillates (petroleum) hydrotreated heavy paraffinic, C20-C50* REACH Registr.Nr.: 01-2119484627-25	265-157-1	64742-54-7	Asp. Tox. 1 (Note L)	H304	max. 30
1-Decene Homopolymer Hydrogenated REACH Registr.Nr.: 01-2119486452-34	500-183-1	68037-01-4	-	-	max. 25
Long-chain alkyl amine	253-249-4	36878-20-3	Aquatic Chronic 4	H413	max. 2.0
C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate REACH Registr.Nr.: 01-0000015551-76	406-040-9	125643-61-0	Aquatic Chronic 4	H413	max. 2.0
Alcohols, C12-16, ethoxylated	500-221-7	-	Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 3	H318 H400 (M=1) H412	max. 0.2
Phenol, dodecyl-, branched REACH Registr.Nr.: 01-2119513207-49	310-154-3	121158-58-5	Skin Corr. 1C Eye Dam. 1 Repr. 1B Aquatic Acute 1 Aquatic Chronic 1	H314 H318 H360F H400 (M=10) H410 (M=10)	< 0.1

*: with exposure limit

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.

SAFETY DATA SHEET



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

MOL-LUB Ltd.

Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Version: 2

Latest revision: 13. 03. 2019

Date of issue: 17. 05. 2016

Page: 4/(14)

SECTION 4 First aid measures

4.1 Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation: Remove the affected person to fresh air. If rapid recovery does not occur, obtain medical attention.

Skin contact: Remove contaminated clothing. Wash skin with large amounts of water, use soap. In the event of a complaint, get medical attention.

Eye contact: Flush eyes with plenty of water for 10-15 minutes. In the event of a complaint, get medical attention.

Ingestion: If swallowed, give water. **Do not** induce vomiting. Get medical attention.

Protection of first-aid person: No individual specifications.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged and/or repeated contact may cause irritation on skin or in eyes depending on individual sensitivity.

4.3 Indication of any immediate medical attention and special treatment need

Not required.

SECTION 5 Fire-fighting measures

Fire hazards:
Combustible.

5.1 Extinguishing media

Suitable extinguishing media:

Foam, carbon dioxide, dry chemical powder.

Unsuitable extinguishing media:

Water jet.

5.2 Special hazards arising from the mixture or substance

Hazardous combustion products:

On burning, carbon monoxide, carbon dioxide, sulphur oxides, phosphor oxides, zinc oxide, various hydrocarbons and soot can be formed.

SAFETY DATA SHEET



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

MOL-LUB Ltd.

Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Version: 2 Latest revision: 13. 03. 2019 Date of issue: 17. 05. 2016 Page: 5/(14)

5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations, respiratory protection.

Further information:

Collect contaminated fire fighting water separately. It must not enter the sewage system. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

Danger of slipping on leaked out/spilled product.

6.2 Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil
Notify relevant authority.

6.3 Methods and material for containment and cleaning up

On soil: All kind of ignition sources should be remove. Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid by pumping. Dispose of according to local regulations.

On water: Confine the spillage. Remove from surface by skimming or suitable absorbents. Notify local authorities according to regulations.

6.4 Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

SECTION 7 Handling and storage

7.1 Precautions for safe handling

Keep general measures applied for normal operations with lubricants and flammable materials.

Keep away from radiant heat and open flame.

Avoid contact with skin and eyes. Avoid prolonged breathing of oil vapours or mists.

Ensure washing facilities after working hours and before breaks. Take off contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke. Avoid splashing the product.

Handling temperature: no data

SAFETY DATA SHEET



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

MOL-LUB Ltd.

Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Version: 2 Latest revision: 13. 03. 2019 Date of issue: 17. 05. 2016 Page: 6/(14)

7.2 Conditions for safe storage, including any incompatibilities

Storage facilities must comply with regulations for storing of flammable liquids.

Store in dry, well ventilated place in original, closed containers.

Keep away from radiant heat, open flame and strong oxidizing agents.

Storage temperature: max. 40°C

7.3 Specific end use(s)

Synthetic motor oil.

SECTION 8 Exposure controls / personal protection

Engineering control measures:

Not required.

8.1 Control parameters:

Mineral oil mist: TWA: **5 mg/m³**; STEL: 10 mg/m³, for oil mist, vapour excluded (ACGIH).

Method of testing, recommended: NIOSH 5026

8.2 Exposure controls

Personal protection:

Respiratory protection: Under normal conditions not required. When the exposure limit value is exceeded recommended to use a half face filter mask.

Hand protection: Oil resistant gloves (EN 374, Breakthrough time 480 min) (e.g. nitrile rubber – minimal thickness 0.33 mm).

Note: Manufacturer's directions for use and the conditions of application should be observed.

Eye protection: Where splashing is possible, wear safety glasses (EN 166).

Skin protection: Protective clothing (oil resistant).

Other special: no data

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Physical state: liquid

Colour: brown, clear

Odour: characteristic

SAFETY DATA SHEET



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

MOL-LUB Ltd.

Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Version: 2

Latest revision: 13. 03. 2019

Date of issue: 17. 05. 2016

Page: 7/(14)

Change in physical state:

Pour point (ISO 3016):

typ. -48°C

Boiling point (ISO 2176):

not available

Others:

Flash point (COC) (EN ISO 2592):

typ. 220°C

Ignition point (EN ISO 2592):

not available

Autoignition temperature:

not available

Explosive properties:

not explosive

Oxidizing properties:

not oxidize

Vapour pressure at 20°C:

negligible

Density at 15°C (EN ISO 12185):

0.835 – 0.855 g/cm³

Solubility in water:

practically insoluble in water

Solubility in other solvents:

gasoline, kerosene, toluene, etc.

n-Octanol/water partition coefficient:

not available

Vapour density:

not available

Heating value:

inf. 38 000 kJ/kg

Kinematic viscosity at 40°C (EN ISO 3104):

typ. 54.3 mm²/s

Kinematic viscosity at 100°C (EN ISO 3104):

typ. 9.7 mm²/s

pH:

not applicable

9.2 Other information

no data available

SECTION 10 Stability and reactivity

10.1 Reactivity:

Dangerous reactivity not known.

10.2 Chemical stability:

No decomposition if stored and handled properly.

10.3 Possibility of hazardous reactions:

Not known.

10.4 Conditions to avoid:

Direct heat or ignition sources.

10.5 Incompatible materials:

Strong oxidizing agents.

10.6 Hazardous decomposition products:

No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

SAFETY DATA SHEET



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

MOL-LUB Ltd.

Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Version: 2

Latest revision: 13. 03. 2019

Date of issue: 17. 05. 2016

Page: 8/(14)

SECTION 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Oral:	LD ₅₀ (rat)	> 2000	mg/kg	(based on components)
Dermal:	LD ₅₀ (rabbit)	> 2000	mg/kg	(based on components)

Components:

Dec-1-ene, trimers, hydrogenated

Oral:	LD ₅₀ (rat)	> 2000	mg/kg	
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1-Decene Homopolymer, hydrogenated

Oral:	LD ₅₀ (rat)	> 5000	mg/kg	
Inhalation:	LC ₅₀ (rat)	>5.2	mg/L	4 h (dust / mist)

Distillates (petroleum) hydrotreated heavy paraffinic, C20-C50

Oral:	LD ₅₀ (rat)	> 5000	mg/kg	
Dermal:	LD ₅₀ (rabbit)	> 2000	mg/kg	
Inhalation:	LC ₅₀ (rat)	> 5.53	mg/L	

Acute toxicity: irritation

Skin:	not irritant (based on components)
Eye:	not irritant (based on components)

Respiratory or skin sensitisation: not sensitising (based on components)

Other information, specific effects:

NOTE L: The base oil(s) contain(s) less than 3% DMSO extract (IP 346), therefore not classified as carcinogenic material according to 1272/2008/EC.

Germ cell mutagenicity:	not known, resp. not mutagen (based on components)
Carcinogenicity:	not known, resp. not carcinogen (based on components)
Reproductive toxicity:	not known, resp. no reproduction-damaging effect (based on components)
STOT-single exposure:	not classified
STOT-repeated exposure:	not classified
Aspiration hazard:	not classified

SAFETY DATA SHEET



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

MOL-LUB Ltd.

Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Version: 2

Latest revision: 13. 03. 2019

Date of issue: 17. 05. 2016

Page: 9/(14)

SECTION 12 Ecological information

12.1 Toxicity

Not available.

Components:

Dec-1-ene, trimers, hydrogenated (based on data of similar material)

Fish:	LL ₅₀	> 1000 mg/L	96 h
Daphnia:	EL ₅₀	> 1000 mg/L	48 h
Daphnia:	NOELR	125 mg/L	21 day
Microorganism:	NOEC	2.0 mg/L	28 day
Aquatic plants:	NOELR	1000 mg/L	72 h

1-Decene Homopolymer, hydrogenated

Fish:	LL ₅₀	> 1000 mg/L	96 h
Daphnia:	EL ₅₀	> 1000 mg/L	48 h
Daphnia:	NOELR	125 mg/L	21 day
Microorganism:	NOEC	2.0 mg/L	28 day
Aquatic plants:	NOELR	1000 mg/L	72 h

Distillates (petroleum) hydrotreated heavy paraffinic, C20-C50

Fish:	LC ₅₀	> 100 mg/L	
Daphnia:	EC ₅₀	> 100 mg/L	
Other aquatic organisms:	EC ₅₀	> 100 mg/L	
Other living beings:	TLM	>1 mg/L	

Long-chain alkyl amine

Fish (zebrafish):	LC ₅₀	> 100 mg/L	96 h
Daphnia:	EC ₅₀	> 100 mg/L	48 h
Green Algae:	EC ₅₀	600 mg/L	72 h
Microorganisms (activated sludge):	EC ₅₀	>1000 mg/L	0.1 day

Alcohols, C12-16, ethoxylated

Fish:	LC ₅₀	> 1.0-10 mg/L	96 h
Daphnia:	EC ₅₀	> 0.1-1.0 mg/L	48 h
Daphnia:	NOEC	> 0.1-1.0 mg/L	21 day
Green Algae:	EC ₅₀	> 0.1-1.0 mg/L	72 h

SAFETY DATA SHEET



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

MOL-LUB Ltd.

Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Version: 2

Latest revision: 13. 03. 2019

Date of issue: 17. 05. 2016

Page: 10/(14)

Phenol, dodecyl-, branched

Fish (Fat-headed carp): LC₅₀ 40 mg/L 96 h

Daphnia: EC₅₀ 0.037 mg/L 48 h

Shrimp (Mysidopsis Bahía): EC₅₀ >0.58 mg/L 96 h

Daphnia: EC₅₀ 0.0079 mg/L 21 day

Daphnia: NOEC 0.0037 mg/L 21 day

Algae: EC₅₀ 0.36 mg/L 72 h

Microorganisms (activated sludge): EC₅₀ >1000 mg/L 0.1 day

12.2 Persistence and degradability

Biodegradability: No data available.

Dec-1-ene, trimers, hydrogenated not readily degradable

1-Decene Homopolymer, hydrogenated not readily degradable

Distillates (petroleum), C20-C50 cca. 30 % (28 day, OECD 301 F). Not easily, but inherently degradable.

Long-chain alkyl amine 0,0 % (28 day, OECD TG 301 B)

Alcohols, C12-16, ethoxylated 60 % (28 day, OECD TG 301 F)

Phenol, dodecyl-, branched 25 % (28 day, OECD TG 301 B)

12.3 Bioaccumulative potential

No data available.

Dec-1-ene, trimers, hydrogenated LogPow: >10 (low)

Long-chain alkyl amine BCF: 1584.89;

Alcohols, C12-16, ethoxylated

Phenol, dodecyl-, branched BCF: 794.33; LogKow: 7.14

12.4 Mobility

Mobility in water: Floats on water.

Mobility in soil: Absorbs in soil.

12.5 Results of PBT and vPvB assessment

Does not contain PBT and vPvB substances.

12.6 Other adverse effects

Heavy metal content: None.

PCT, PCB and other chlorinated hydrocarbons: None.

Environmental effects: Harmful to aquatic life with long lasting effects.

Water hazard class (German): WGK 2 (Classification by VwVwS)

SAFETY DATA SHEET



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

MOL-LUB Ltd.

Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Version: 2

Latest revision: 13. 03. 2019

Date of issue: 17. 05. 2016

Page: 11/(14)

SECTION 13 Disposal considerations

13.1 Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

Waste Identification Code: 13 02 05*

Mineral-based non-chlorinated engine, gear and lubricating oils.

Waste Identification Code: 13 02 06*

Synthetic engine, gear and lubricating oils.

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration

Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Waste Identification Code: 15 01 10*

packaging containing residues of or contaminated by dangerous substances

Disposal must be in compliance with national and local regulations.

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

SECTION 14 Transport information

Land transport:

Road/ Railway

ADR/RID:

Not classified.

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

Waterways:

Inland waterways/ Sea transport ADN/IMDG:

Not apply to the product.

Air transport: ICAO / IATA:

Not apply to the product.

SAFETY DATA SHEET



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

MOL-LUB Ltd.

Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Version: 2

Latest revision: 13. 03. 2019

Date of issue: 17. 05. 2016

Page: 12/(14)

SECTION 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the mixture.
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2015/830/EU) and to Regulation (EC) 1272/2008.
- 15.2 Chemical safety assessment.
not available

SECTION 16 Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

Source of data presented in this material safety data sheet:

- Test results of this product
- Material safety data sheets of product's components
- 1272/2008/EC regulation, Annex XVII. of REACH
- Relevant Hungarian and EU regulations

Classification for mixtures and used evaluation method according to regulation 1272/2008/EC (CLP)

Aquatic Chronic 3 H412 calculated

The full text of each relevant H-phrase and Hazard classes and cat. in Section 3.:

- | | |
|-------|---|
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H360F | May damage fertility. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

SAFETY DATA SHEET



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

MOL-LUB Ltd.

Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Version: 2

Latest revision: 13. 03. 2019

Date of issue: 17. 05. 2016

Page: 13/(14)

Asp. Tox. 1	Aspiration hazard Category 1
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Repr. 1B	Reproductive toxicity Category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, Acute Category 1
Aquatic. Chronic 1	Hazardous to the aquatic environment, Chronic Category 1
Aquatic. Chronic 3	Hazardous to the aquatic environment, Chronic Category 3
Aquatic. Chronic 4	Hazardous to the aquatic environment, Chronic Category 4

Legend:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
BOD	Biological Oxygen Demand
Bw	Body Weight
C&L	Classification and Labelling
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (1272/2008/EC)
CMR	Carcinogenic, Mutagenic or toxic to Reproduction
COD	Chemical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Chemicals Agency
Ec _x	Effective Concentration x%
ErC ₅₀	EC ₅₀ in terms of reduction of growth rate
Ed _x	Effective Dose x%
EC	European Community
EC number	European Community number
ELINCS	European List of Notified Chemical Substances
ES	Exposure Scenario
ESIS	European Chemical Substances Information System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC _x	Lethal Concentration x%
LD _x	Lethal Dose x%
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest Observed Effect Concentration

SAFETY DATA SHEET



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

MOL-LUB Ltd.

Trade name: **MOL Dynamic Star PC 0W-30 synthetic motor oil**

Version: 2

Latest revision: 13. 03. 2019

Date of issue: 17. 05. 2016

Page: 14/(14)

LOEL	Lowest Observed Effect Level
NOEC	No observed effect concentration
NOEL	No observed effect level
NLP	No-Longer Polymer
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts/million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International carriage of Dangerous Goods by Rail
SVHC	Substance of Very High Concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bio-accumulative

Revision Indicators:

Section	Subject of change	Date	Version
3	Composition/information on ingredients	13.03.2019	2
9	Physical and chemical properties		
11	Toxicological information		
12	Ecological information		
1-16	Other corrections		