

SAFETY DATA SHEET

according to regulation 1907/2006/EC (REACH) and 1272/2008/EC



MOL-LUB Ltd.

Trade name: **MOL Favorit 2 Blue lithium complex lubricating grease**

Version: 3 Latest revision: 10. 06. 2022 Date of issue: 22. 02. 2016 Page: 1/(15)

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

1.1 Product identifier:

MOL Favorit 2 Blue lithium complex lubricating grease

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

Relevant identified uses: lithium complex lubricating grease

Uses advised against: application other than the above.

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 Kft.

Tel: +36 80 201 296

E-mail: EBKHelpdesk@MOL.hu

1.4 Emergency telephone number

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

Health Toxicological Information Service (ETTSZ 1097 Budapest, Albert Flórián st. 2-6.)

Tel.: +36 80 201 199 (0-24 h, free number, can only be called from Hungary).

+36 1 476 6464 (0-24 h, can be called for a normal fee - also from abroad)

National Health Toxicological Information Service:

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Hazard Class and Category:

Aquatic Chronic 3

Hazard statement:

H412

Harmful to aquatic life with long lasting effects.

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2.2 Label elements

Product identification: Trade name: **MOL Favorit 2 Blue lithium complex lubricating grease**

Hazardous component(s): -

Pictogram: not required

Signal word: not required

Hazard statement:

H412 Harmful to aquatic life with long lasting effects.

Supplemental hazard information:

EUH208 Contains Long-chain alkyl amine. May produce an allergic reaction.

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, at a concentration of 0.1% or more.

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SECTION 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: Mineral oil and synthetic oil based containing calorific, lubricant containing complex lithium soap and additives.

Component(s) / Hazardous component(s):

Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Distillates (petroleum), solvent-dewaxed heavy paraffinic* REACH Registr. Nr.: 01-2119471299-27	265-169-7	64742-65-0	- (Note L)	-	max. 70
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated* REACH Registr. Nr.: 01-2119489969-06	309-877-7	101316-72-7	- (Note L)	-	max. 60
Residual oils (petroleum), solvent-dewaxed* REACH Registr. Nr.: 01-2119480472-38	265-166-0	64742-62-7	- (Note L)	-	max. 35
Lubricating oils (petroleum), C > 25, solvent-extd., deasphalted, dewaxed, hydrogenated* REACH Registr. Nr.: 01-2119471299-27	309-874-0	101316-69-2	- (Note L)	-	max. 6.0
Residual oils (petroleum), solvent-refined* REACH Registr. Nr.: 01-2119488707-21	265-101-6	64742-01-4	- (Note L)	-	max. 6.0
Sulfurized vegetable oil REACH Registr. Nr.: no data	304-821-2	94279-76-2	Skin Irrit. 2 Eye Irrit. 2	H315 H319	max. 1.5
Zinc alkyl dithiophosphate** REACH Registr. Nr.: 01-2120742271-64	272-028-3	68649-42-3	Skin Irrit. 2 Eye Dam. 1 Aquatic Chronic 2	H315 H318 H411	max. 1.2
Long-chain alkenyl amine REACH Registr. Nr.: no data	204-015-5	112-90-3	Acute Tox. 4 Asp. Tox. 1 Skin Corr. 1B STOT SE 3 STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1	H302 H304 H314 H335 H373 H400 (M=10) H410 (M=10)	<0.025

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Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. %(m/m)
Long-chain alkyl amine REACH Registr. Nr.: 01-2119456798-18	273-279-1	68955-53-3	Acute Tox. 4 Acute Tox. 3 Skin Corr. 1B Skin Sens. 1A Acute Tox. 2 STOT SE 3 Aquatic Acute 1 Aquatic Chronic 1	H302 H311 H314 H317 H330 H335 H400 (M=1) H410 (M=1)	<0.025

*: with exposure limit

**Specific concentration limit: Skin Irrit. 2: $C \geq 5 \%$;
Eye Dam. 1: $C > 10 \%$; Eye Irrit. 2: $5 \% \leq C \leq 10 \%$.

Note L:

The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide 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), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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

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. Seek medical attention.

Skin contact: Remove contaminated clothing. Wash with plenty amount of water, using soap. In case of persistent irritation, get medical advice.

Eye contact: Flush eyes with large amounts of water for at least 15 minutes. Get medical attention.

Ingestion: If swallowed, give drink salted lukewarm water. Induce vomiting. Get medical attention.

Protection of first-aid person: No individual specifications.

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- 4.2 Most important symptoms and effects, both acute and delayed
May produce an allergic reaction.
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 needed
Not required.

SECTION 5 Fire-fighting measures

Fire hazards:

Combustible.

5.1 Extinguishing media

Suitable extinguishing media:

Sand, carbon dioxide, dry chemical powder.

Unsuitable extinguishing media:

Full 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, various hydrocarbons and soot can be formed.

5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations.

Further information:

-

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.

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6.3 Methods and material for containment and cleaning up

On soil: Take up spilled product with shovel or scoop. Residuals should be cleaned up with cloths. Dispose of the collected material as hazardous waste, according to local regulations.

On water: Confine the spillage. Remove from surface by skimming. 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

General measures for handling lubricant greases should be observed.

Avoid splashing the product.

Avoid contact with skin and eyes.

Ensure washing facilities after working hours and before breaks.

Take off contaminated clothing and wash it before reuse.

After splashing floor may be slippery, use care to avoid falling, contain spills immediately.

When using do not eat, drink or smoke.

Handling temperature: not available

7.2 Conditions for safe storage, including any incompatibilities

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

Keep away from direct heat, ignition sources and strong oxidizing agents.

Recommended storage temperature: max. 45°C

7.3 Specific end use(s)

Lithium complex lubricating grease.

SECTION 8 Exposure controls / personal protection

8.1 Control parameters: -

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8.2 Exposure controls

Engineering control measures:

Not required.

Personal protection:

(a) Eye/face protection

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

(b) Skin protection

(i) Hand protection

Oil resistant gloves (EN 374, Breakthrough time 480 min).

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

(ii) Other

Protective clothing (oil resistant).

(c) Respiratory protection

Breathing apparatus not required.

(d) Thermal hazards

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

a) Physical state:	consistent (The surface oil may be released during prolonged storage.)
b) Colour:	navy blue
c) Odour:	characteristic
d) Melting point/freezing point (Pour point) (ISO 2176):	typ. 270°C
e) Boiling point or initial boiling point and boiling range (DIN 51356):	not available
f) Flammability:	combustible
g) Lower and upper explosion limit:	not explosive
h) Flash point (COC) (EN ISO 2592):	> 200°C (base oil)
i) Auto-ignition temperature:	not available
j) Decomposition temperature:	not available
k) pH:	not applicable
l) Kinematic viscosity (EN ISO 3104)	
at 40°C:	not available
at 100°C:	not available

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m) Solubility

Solubility in water:

practically insoluble in water

Solubility in other solvents:

not available

n) Partition coefficient n-octanol/water (log value):

not available

o) Vapour pressure at 20°C:

negligible

p) Density and/or relative density at 15°C (DIN EN ISO 12185):

not available

q) Relative vapour density:

not available

r) Particle characteristics:

not available

9.2 Other information

Oxidizing properties:

not oxidize

Penetration after working – 60 c, at 25°C
(0,1 mm) (ISO 2137):

typ. 280

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, open flames.

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.

SECTION 11 Toxicological information

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

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

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS: 64742-65-0)

Oral: LD₅₀ (rat) > 5000 mg/kg (literature data)

Dermal: LD₅₀ (rabbit) > 2000 mg/kg (literature data)

Inhalation: LC₅₀ (rat) > 5.53 mg/L/4 h (literature data)

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

Oral: LD₅₀ (rat) > 5000 mg/kg OECD 401

Dermal: LD₅₀ (rabbit) > 5000 mg/kg OECD 402

Inhalation: LC₅₀ (rat) > 5.53 mg/L/4 h OECD 403

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Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (CAS: 101316-72-7)

Oral: LD₅₀ (rat) > 5000 mg/kg

Dermal: LD₅₀ (rabbit) > 2000 mg/kg

Inhalation: LC₅₀ (rat) > 5.53 mg/L

Lubricating oils (petroleum), C > 25, solvent-extd., deasphalted, dewaxed, hydrogenated (CAS: 101316-69-2)

Oral: LD₅₀ (rat) > 5000 mg/kg

Dermal: LD₅₀ (rabbit) > 2000 mg/kg

Inhalation: LC₅₀ (rat) > 5.53 mg/L

Residual oils (petroleum), solvent-refined (CAS: 64742-01-4)

Oral: LD₅₀ (rat) > 5000 mg/kg OECD 401

Dermal: LD₅₀ (rat) > 5000 mg/kg OECD 402

Inhalation: LC₅₀ (rat) > 5.0 mg/L/4 h OECD 403

1-Decene Homopolymer, Hydrogenated (CAS: 68649-42-3)

Dermal: LD₅₀ (rat) > 2000 mg/kg

Oral: LD₅₀ (rat) 2230 mg/kg

Oral: LD₅₀ (rat) 3100 mg/kg

Long-chain alkyl amine (CAS: 68955-53-3)

Oral: LD₅₀ (rat) 612 mg/kg

Dermal: LD₅₀ (rat) 251 mg/kg

Inhalation: LC₅₀ (rat) 1.19 mg/L/4 h

Long-chain alkenyl amine (CAS: 112-90-3)

Oral: LD₅₀ (rat) 1689 mg/kg

Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

11.2 Information on other hazards

No data.

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SECTION 12 Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS: 64742-65-0)

Fishes:	LC ₅₀	> 100 mg/L	(literature data)
Daphnia:	EC ₅₀	> 100 mg/L	(literature data)
Other aquatic organisms:	EC ₅₀	> 100 mg/L	(literature data)
Algae:	ErC ₅₀	> 100 mg/L	(literature data)
Other living beings:	TLM	> 1 mg/L	(literature data)

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

Fishes (Pimephales promelas):	LL ₅₀	> 100 mg/L	(96 h) (OECD 203)
Fishes:	NOEL	≥ 100 mg/L	
Daphnia (Daphnia magna):	EL ₅₀	> 10 000 mg/L	(48 h) (OECD 202)
Daphnia:	NOEL	≥ 1000 mg/L	
Daphnia:	NOEL	10 mg/L	(21 days) (OECD 211)
Gammarus pulex:	LL ₅₀	> 10 000 mg/L	(96 h) (OECD 202)
Aquatic invertebrates:	NOEL	≥ 10 000 mg/L	
Algae			
(Pseudokirchneriella subcapitata):	NOEL	≥ 100 mg/L	(72 h) (OECD 201)
Activated sludge (Photobacterium phosphoreum):	NOEL	1.93 mg/L	(96 h)

Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (CAS: 101316-72-7)

Fishes:	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

Lubricating oils (petroleum), C >25, solvent-extd., deasphalted, dewaxed, hydrogenated (CAS: 101316-69-2)

Fishes:	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

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Residual oils (petroleum), solvent-refined (CAS: 64742-01-4)

Fishes:	LL ₅₀	> 100 mg/L	
Daphnia:	EC ₅₀	> 10 000 mg/L	(48 h, OECD 202)

Long-chain alkenyl amine (CAS: 112-90-3)

Fishes:	LC ₅₀	0.11 mg/L	(96 h)
Daphnia:	EC ₅₀	0.011 mg/L	(48 h)
Algae:	EC ₅₀	0.03 mg/L	(96 h)

- | | |
|--|---|
| 12.2 Persistence and degradability | No data available. |
| Biodegradability: | Hydrocarbons are inherently degradable. |
| Zinc dialkyl dithiophosphate (CAS: 68649-42-3) | Not easily degradable. |
| Long-chain alkenyl amine | 66% (28 days, OECD 301B), readily degradable. |
| 12.3 Bioaccumulative potential | No data available. |
| 12.4 Mobility in soil: | Soil is not mobile. |
| Mobility in water: | Floats on water. Does not form continuous layer. |
| 12.5 Results of PBT and vPvB assessment | Does not contain PBT and vPvB substances, at a concentration of 0.1% or more. |
| 12.6 Endocrine disrupting properties | No data. |
| 12.7 Other adverse effects | |
| Heavy metal content: | None. |
| PCT, PCB and other chlorinated hydrocarbons: | None. |
| Environmental effects: | Large spillages may be hazardous to the environment. |
| Water hazard class (German): | WGK 1 (Classification by AwSV) |

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: 12 01 12*

Spent waxes and fats.

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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.

Recommended waste treatment method: incineration

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 or ID number:

Not classified.

14.2. UN proper shipping name:

Not classified.

14.3. Transport hazard class(es):

Not classified.

14.4. Packing group:

Not classified.

14.5. Environmental hazards:

Not classified.

14.6. Special precautions for user:

Not classified.

Waterways:

Inland waterways/ Sea transport

ADN/IMDG:

Not apply to the product.

Air transport: ICAO / IATA:

Not apply to the product.

SECTION 15 Regulatory information

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

This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2020/878/EU) and to Regulation (EC) 1272/2008.

Seveso category: not classified.

15.2 Chemical safety assessment.

not available

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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.

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

Aquatic Chronic 3

H412

calculated

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

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to kidneys through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
Acute Tox. 4	Acute toxicity Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Acute Tox. 3	Acute toxicity Category 3
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1A	Respiratory/skin sensitization Category 1A

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Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Acute Tox. 2	Acute toxicity Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3
STOT RE 2	Specific target organ toxicity – repeated exposure Category 2
Aquatic Acute 1	Hazardous to the aquatic environment, Acute Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, Chronic Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, Chronic Category 2

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
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

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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
2.2, 14 3 9 1-16	Regulatory information Composition/information on ingredients Physical and chemical properties Other corrections	05. 03. 2018	2
1-16	Revision modification according to 2020/878/EU Full revision due to composition change	10. 06. 2022	3