

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

Trade name: MOL Hydro HME 46 premium hydraulic oil

Version: 10 Latest revision: 26. 02. 2024 Date of issue: 20. 06. 2007 Page: 1/(15)

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

1.1. Product identifier

MOL Hydro HME 46 premium hydraulic oil

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

Relevant identified uses: premium hydraulic oil.

Uses advised against: no data.

1.3. Details of the supplier of the safety data sheet

MOL-LUB Lubricant Production Trade and Service Limited Liability Company

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 Trade and Service Limited Liability Company

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 út 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: Hazard statement:

Not classified.



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2.2. Label elements

Product identification: Trade name: MOL Hydro HME 46 premium hydraulic oil

Hazardous components: -

GHS Pictogram: not required Signal word: not required

Hazard statement: **not required**

Supplemental hazard information:

EUH210 Safety data sheet available on request.

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 and child-resistant fastening: 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.

The product does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.



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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical description: Mixture of refined mineral base oils containing additives.

Component(s) / Hazardous component(s):

| Name | EC | CAS | Hazard classes and | Hazard | Conc. |
|-------------------------------|-----------|-------------|--------------------|------------|-----------|
| Name | number | number | cat. | statements | %(m/m) |
| Distillates (petroleum), | 265-169-7 | 64742-65-0 | = | - | <99 |
| solvent-dewaxed heavy | | | (Note L) | | |
| paraffinic* | | | | | |
| REACH Registr. Nr.: | | | | | |
| 01-2119471299-27 | | | | | |
| Distillates (petroleum), | 265-157-1 | 64742-54-7 | - | - | max. 50 |
| hydrotreated heavy | | | (Note L) | | |
| paraffinic* | | | | | |
| REACH Registr. Nr: | | | | | |
| 01-2119484627-25 | | | | | |
| Lubricating oils (petroleum), | 309-877-7 | 101316-72-7 | - | - | max. 50 |
| C24-50, solvent-extd., | | | (Note L) | | |
| dewaxed, hydrogenated* | | | | | |
| REACH Registr. Nr.: | | | | | |
| 01-2119489969-06 | | | | | |
| Distillates (petroleum), | 265-090-8 | 64741-88-4 | - | - | max. 50 |
| solvent-refined heavy | | | (Note L) | | |
| paraffinic* | | | | | |
| REACH Registr. Nr.: | | | | | |
| 01-2119474878-16 | | | | | |
| Lubricating oils* | 278-012-2 | 74869-22-0 | - | - | max. 50 |
| REACH Registr. Nr.: | | | (Note L) | | |
| 01-2119495601-36 | | | | | |
| Distillates (petroleum), | 265-159-2 | 64742-56-9 | Asp. Tox. 1 | H304 | max. 5.0 |
| solvent-dewaxed light | | | (Note L) | | |
| paraffinic | | | | | |
| REACH Registr. Nr.: | | | | | |
| 01-2119480132-48 | | | | | |
| Zinc alkyl dithiophosphate | 272-028-3 | 68649-42-3 | Eye Dam. 1 | H318 | max. 0.60 |
| REACH Registr. Nr: | | | Aquatic Chronic. 2 | H411 | |
| 01-2120742271-64 | | | | | |
| 2,6-di-tert-butylphenol | 204-884-0 | 128-39-2 | Skin Irrit. 2 | H315 | < 0.17 |
| REACH Registr. Nr.: | | | Aquatic Acute 1 | H400 (M=1) | |
| 01-2119490822-33 | | | Aquatic Chronic 1 | H410 (M=1) | |

^{*:} with exposure limit



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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. If rapid recovery does not occur, obtain

medical attention.

Skin contact: Remove contaminated clothing. Wash skin with large amounts of water, use

soap. In case of persistent irritation, get medical attention.

Eye contact: Flush eyes with plenty of water for 10-15 minutes. In case of persistent irritation,

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 needed Not required.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam, carbon dioxide, dry chemical powder.

Unsuitable extinguishing media:

Water jet.



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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

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

5.3. Advice for fire-fighters

Special protective equipment:

According to the existing firefighting regulations. Respiratory protection.

Further information:

Collect contaminated firefighting 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 removed. Recover free liquid by

pumping. Contain the rest or small quantities with sand, earth or other suitable

absorbents. 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 liquids.

Keep away from radiant heat and open flame.

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



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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: not known.

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)

Premium hydraulic oil.

SECTION 8: Exposure controls / personal protection

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

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, PK

power level: 6; PR flow rate: 0).

Note: Manufacturer's directions for use and the conditions of

application should be observed.

(ii) Other Protective clothing (oil resistant).

(c) Respiratory protection Under normal conditions not required. In case of exceeded

exposure-limits respiratory protection with particle-filter is

recommended.

(d) Thermal hazards No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Physical state: liquid

b) Colour: yellow, clear, bright

c) Odour: characteristic

d) Melting point/freezing point (Pour point) (ISO 3016): typ. -30°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): typ. 225°C
i) Auto-ignition temperature: not available

i) Auto-ignition temperature: not availablej) Decomposition temperature: not available

k) pH: not applicable

l) Kinematic viscosity (EN ISO 3104)

at 40°C: typ. 46.4 mm²/s at 100°C: typ. 6.75 mm²/s

m) Solubility

Solubility in water: practically insoluble in water

Solubility in other solvents: gasoline, kerosene, toluene, etc.

n) Partition coefficient n-octanol/water (log value): not available

o) Vanour pressure at 20°C: negligible

o) Vapour pressure at 20°C: negligible

p) Density and/or relative density at 15°C (EN ISO 12185): 0.865 - 0.885 g/cm³

q) Relative vapour density: not available r) Particle characteristics: not available

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.



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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

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

Components:

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

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

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

Distillates (petroleum), solvent-refined heavy paraffinic (CAS: 64741-88-4)

 $\begin{array}{lll} \text{Oral:} & LD_{50} \ (\text{rat}) & > 5000 \ \text{mg/kg} \\ \text{Dermal:} & LD_{50} \ (\text{rabbit}) & > 5000 \ \text{mg/kg} \\ \text{Inhalation:} & LC_{50} \ (\text{rat}) & > 5.53 \ \text{mg/L} \ (4 \ \text{h}) \end{array}$

Lubricating oils (CAS: 74869-22-0)

Distillates (petroleum), solvent-dewaxed light paraffinic (CAS: 64742-56-9)

Oral: LD_{50} (rat) >5000 mg/kg (literature data) Dermal: LD_{50} (rabbit) >2000 mg/kg (literature data) Inhalation: LC_{50} (rat) >5.53 mg/L (4 h) (literature data)

Zinc alkyl dithiophospate (CAS: 68649-42-3)



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2,6-di-tert-butylphenol (CAS: 128-39-2)

Oral: LD_{50} (rat) 8697 mg/kg Dermal: LD_{50} (rabbit) > 2000 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. Based on available data, the classification criteria are not met. Carcinogenicity: 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

The product does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

SECTION 12: Ecological information

12.1. Toxicity No data for the product.

Components:

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

Fishes: > 100 mg/L LC_{50} (literature data) Daphnia: EC_{50} > 100 mg/L(literature data) Other aquatic organisms: > 100 mg/L EC_{50} (literature data) ErC_{50} > 100 mg/L(literature data) Algae: Other living beings: TLM > 1 mg/L(literature data)

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

Fishes: > 1000 mg/L 96 h (OECD 203)
Daphnia: > 100 mg/L 48 h (OECD 202)
Algae: > 100 mg/L 72 h (OECD 201)

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

Fish: $LC_{50} > 100 \text{ mg/L}$ (LL50) Daphnia: $EC_{50} > 10000 \text{ mg/L}$ (WAF, 48 h, OECD 202)



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| 2.3. | | Hydrocarbons are inherently degradable. No data available. | | | | | | |
|------|--|---|------------|--------------|-----------------|--|--|--|
| 2.2. | 2 , | No data available. | | | | | | |
| | Microorganisms: | EC ₅₀ | > 1000 | mg/L | 3 h | | | |
| | Algae (Pseudokirchneriella subcapitata) | : NOEC | | mg/L | 96 h | | | |
| | subcapitata): | | | | , , <u></u> | | | |
| | Algae (Pseudokirchneriella | EC ₅₀ | | mg/L mg/L | 96 h | | | |
| | Daphnia (Daphnia magna): | NOEC | | mg/L | 21 days | | | |
| | Daphnia (Daphnia magna): | LC ₅₀ | | mg/L | 48 h | | | |
| | 2,6-di-tert-butylphenol (CAS: 128-39-2) Fishes (Pimephales promelas): |) LC ₅₀ | 1 Δ | mg/L | 96 h | | | |
| | Crustacea: | NOEC | > 1 | mg/L | | | | |
| | Algae: | ErC_{50} | | mg/L | | | | |
| | Other aquatic organisms: | EC_{50} | | mg/L | | | | |
| | Fishes: | LC_{50} | > 100 | mg/L | | | | |
| | Distillates (petroleum), solvent-dewaxed | tes (petroleum), solvent-dewaxed light paraffinic (CAS: 64742-56-9) | | | | | | |
| | Algae: | NOEL | ≥ 100 | mg/L | 72 h (OECD 201) | | | |
| | Daphnia (Daphnia magna): | NOEL | | mg/L | (OECD 211) | | | |
| | Daphnia (Daphnia magna): | NOEL | > 1000 | | 48 h | | | |
| | Daphnia (Daphnia magna): | EL50 | > 10000 | mg/L | 48 h (OECD 202) | | | |
| | Fish: | NOEL | ≥ 100 | mg/L | 96 h | | | |
| | Lubricating oils (CAS: 74869-22-0) Fish: | LL50 | ≥ 100 | mg/L | 96 h | | | |
| | (Photobacterium phosphoreum): | NOEL | 1.93 | mg/L | 96 h | | | |
| | Activated sludge | NOEL | 1.02 | / T | 061 | | | |
| | Algae (Pseudokirchneriella subcapitata) | : NOEL | > 100 | mg/L | 72 h | | | |
| | Daphnia (Daphnia magna): | NOEC | | mg/L | | | | |
| | Daphnia (Daphnia magna): | EL_{50} | > 10000 | | 48 h | | | |
| | Fish (Pimephales promelas): | LC_{50} | | mg/L | 96 h | | | |

12.4. Mobility in soil Absorbs in soil. Mobility in water: Floats on water.

12.5. Results of PBT and vPvB assessment Does not contain PBT and vPvB substances, at a

concentration of 0.1% or more.



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12.6. Endocrine disrupting properties The product does not contain any substance with

endocrine disrupting properties, at a concentration of

0.1% or more.

12.7. Other adverse effects

Heavy metal content: None.

PCT, PCB and other chlorinated

hydrocarbons: None.

Environmental effects: Large spills may be hazardous to the environment.

Spills may form a film on water surfaces causing

impaired oxygen transfer.

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: 13 01 10*

Mineral based non-chlorinated hydraulic oils.

Waste Identification Code: 13 02 05*

Mineral-based non-chlorinated 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.



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SECTION 14: Transport information

Land transport:

Road/ Railway ADR/RID: Not classified.

14.1. UN number or ID number
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group
Not classified.
Not classified.
Not classified.

14.5. Environmental hazards
14.6. Special precautions for user
14.7. Maritime transport in bulk according to IMO instruments
Not classified.
Not classified.
Does not apply.

. Maritime transport in bulk according to INIO instruments

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

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.



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

Not classified.

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.

H315 Causes skin irritation.
H318 Causes serious eye damage

H318 Causes serious eye damage. 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.

Asp. Tox. 1 Aspiration hazard Category 1

Skin Irrit. 2 Skin corrosion/irritation Category 2

Eye Dam. 1 Serious eye damage/eye irritation Category 1

Aquatic Acute 1 Hazardous to the aquatic environment, Acute Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, Chronic Category 1
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
Ecx Effective Concentration x%



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ErC50 EC50 in terms of reduction of growth rate

Edx 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

LCx Lethal Concentration x%

LDx Lethal Dose x%

LOAEC Lowest Observed Adverse Effect Concentration

LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

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 |
|---------|--|--------------|---------|
| 1-16 | Revision modification according to REACH | 29. 01. 2010 | 2 |
| 2 | (1907/2006/EC), other correction | 04 09 2011 | 2 |
| 3 | Composition/information on ingredients | 04. 08. 2011 | 3 |
| 1-16 | Regulatory information, other corrections Revision modification according to 453/2010/EC | | |
| 3 | Composition/information on ingredients | 20. 07. 2012 | 4 |
| 9 | Physical and chemical properties | | |
| 1-16 | Revision modification according to 1272/2008/EC | 01. 09. 2012 | 5 |

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Revision Indicators: Section Subject of change Date Version Details of the supplier of the safety data sheet, 18.06.2015 6 1 Responsible for SDS Other hazards 2 3 Composition/information on ingredients 5 Fire hazards Physical and chemical properties 9 12 Ecological information 14 Transport information Other corrections, revision modification according to 1-16 2015/830 /EU 19. 03. 2018 7 2.2 Label elements Composition/information on ingredients 3 Ecological information 12 Disposal considerations 13 2.2, 14 Regulatory information Other corrections 16 2.2 Label elements 17. 10. 2018 8 Composition/information on ingredients 3 16 Other corrections Full revision due to composition change 21. 10. 2021 9 1-16 Revision modification according to 2020/878/EU Full revision due to composition change