

SAFETY DATA SHEET



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

MOL-LUB Ltd.

Trade name: **MOL Hykomol Synt 75W-90 semi-synthetic automotive gear oil**

Version: 9. Latest revision: 15. 08. 2022 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 Hykomol Synt 75W-90 semi-synthetic automotive gear oil

UFI: 8AV0-F07R-Y009-6VCY

UFI: YQN0-G036-D006-8KH0

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

Relevant identified uses: semi-synthetic automotive gear oil.

Uses advised against: application other than the above.

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 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: Hazard statement:

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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2.2 Label elements

Product identification: Trade name: **MOL Hykomol Synt 75W-90 semi-synthetic automotive gear oil**

Hazardous component(s): Amines, C10-14-tert-alkyl

GHS Pictogram:



Signal word: **Warning**

Hazard statement:

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Supplemental hazard information: -

Precautionary statements – General:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statements – Prevention:

P273 Avoid release to the environment.

P280 Wear protective gloves protection.

Precautionary statements – Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

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.

The mixture 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 and synthetic oils containing additives.

Component(s) / Hazardous component(s):

Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Distillates (petroleum), hydrotreated heavy paraffinic REACH Registr. Nr.: 01-2119484627-25	265-157-1	64742-54-7	Asp. Tox. 1 (Note L)	H304	max. 60
1-Decene Homopolymer Hydrogenated REACH Registr. Nr.: 01-2119486452-34	500-183-1	68037-01-4	-	-	max. 35
Distillates (petroleum), hydrotreated heavy paraffinic REACH Registr. Nr.: 01-2119484627-25	265-157-1	64742-54-7	- (Note L)	-	max. 22
Distillates (petroleum), solvent-dewaxed heavy paraffinic* REACH Registr. Nr.: 01-2119471299-27	265-169-7	64742-65-0	- (Note L)	-	max. 15
Acrylic copolymer REACH Registr. Nr.: no data	-	-	-	-	max. 15
Residual oils (petroleum), solvent-dewaxed REACH Registr. Nr.: 01-2119480472-38	265-166-0	64742-62-7	- (Note L)	-	max. 10
Residual oils (petroleum), solvent-refined* REACH Registr. Nr.: 01-2119488707-21	265-101-6	64742-01-4	- (Note L)	-	max. 5.0
Distillates (petroleum), solvent-dewaxed light paraffinic REACH Registr. Nr.: 01-2119480132-48	265-159-2	64742-56-9	Asp. Tox. 1 (Note L)	H304	max. 1.5

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Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Amines, C10-14-tert-alkyl REACH Registr. Nr.: 01-2119456798-18	701-175-2	-	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)	<0.12
C16-18-(even numbered, saturated and unsaturated)-alkylamines REACH Registr. Nr.: 01-2119473797-19	627-034-4	-	Acute Tox. 4 Asp. Tox. 1 Skin Corr. 1B Eye Dam. 1 STOT SE 3 STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1	H302 H304 H314 H318 H335 H373 H400 (M=10) H410 (M=10)	max. 0.12

*: with exposure limit

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.

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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

Fire hazards:
Combustible.

5.1 Extinguishing media
Suitable extinguishing media:
Foam, carbon dioxide, dry chemical powder.

Unsuitable extinguishing media:
Full water jet.

5.2 Special hazards arising from the substance or mixture
Hazardous combustion products:
On burning, carbon monoxide, carbon dioxide, 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:
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.

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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.

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: 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)

Semi-synthetic automotive gear 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

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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) Vapour pressure at 20°C: negligible

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

0.860– 0.880 g/cm³

q) Relative vapour density: not available

r) Particle characteristics: not available

9.2 Other information

Oxidizing properties: not oxidize

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.

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:	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)

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)

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

Oral:	LD ₅₀ (rat)	> 2000 mg/kg	OECD 401
Dermal:	LD ₅₀ (rabbit)	> 2000 mg/kg	OECD 402
Inhalation:	LC ₅₀ (rat)	> 5000 mg/m ³	OECD 403

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

Oral:	LD ₅₀ (rat)	> 5000 mg/kg	OECD 401
Dermal:	LD ₅₀ (rabbit)	> 5000 mg/kg	OECD 402
Inhalation:	LC ₅₀ (rat)	> 5.53 mg/L/4 h	OECD 403

1-Decene Homopolymer Hydrogenated (CAS: 68037-01-4)

Oral:	LD ₅₀ (rat)	> 5000 mg/kg	
Dermal:	LD ₅₀ (rat)	> 2000 mg/kg	
Inhalation:	LC ₅₀ (rat)	> 5.2 mg/L	

C16-18-(even numbered, saturated and unsaturated)-alkylamines (EC: 627-034-4)

Orális:	LD ₅₀ (patkány)	1689 mg/kg	(OECD 401)
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Residual oils (petroleum), solvent-refined (CAS: 64742-01-4)

Oral:	LD ₅₀ (rat)	> 5000 mg/kg	OECD 401
Dermal:	LD ₅₀ (rat)	> 5000 mg/kg	OECD 402
Inhalation:	LC ₅₀ (rat)	> 5.0 mg/L/4 h	OECD 403

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:	May cause an allergic skin reaction.
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.

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)

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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)

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

Fish:	LC ₅₀	> 100 mg/L	
Other aquatic organisms:	EC ₅₀	> 100 mg/L	
Algae:	ErC ₅₀	> 100 mg/L	
Crustacea:	NOEC	> 1 mg/L	

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

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

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

Fish (Pimephales promelas):	LL ₅₀	> 100 mg/L	96 h (OECD 203)
Fish:	NOEL	≥ 100 mg/L	
Daphnia (Daphnia magna):	EL ₅₀	> 10000 mg/L	48 h (OECD 202)
Daphnia:	NOEL	≥ 1000 mg/L	
Daphnia:	NOEL	10 mg/L	21 days (OECD 211)
Gammarus pulex:	LL ₅₀	> 10000 mg/L	96 h (OECD 202)
Aquatic invertebrates:	NOEL	≥ 10000 mg/L	
Algae (Pseudokirchneriella subcapitata):	NOEL	≥ 100 mg/L	72 h (OECD 201)
Activated sludge (Photobacterium phosphoreum):	NOEL	1.93 mg/L	96 h

1-Decene Homopolymer Hydrogenated (CAS: 68037-01-4)

Fishes (Oncorhynchus mykiss):	LC ₅₀	> 1000 mg/L	4 h
Daphnia (Daphnia magna):	EC ₅₀	> 1000 mg/L	48 h
Daphnia (Daphnia magna):	EC ₅₀	> 125 mg/L	21 days
Daphnia (Daphnia magna):	NOEC	125 mg/L	21 days
Algae (Scenedesmus quadricauda):	LC ₅₀	> 1000 mg/L	3 h
Algae (Scenedesmus quadricauda):	NOEC	> 1000 mg/L	3 h

C16-18-(even numbered, saturated and unsaturated)-alkylamines (EC: 627-034-4)

Fishes (Pimephales promelas):	LL ₅₀	0.06 mg/L	96 h
Daphnia (Daphnia magna):	EL ₅₀	0.011 mg/L	48 h
Daphnia (Daphnia magna):	NOEL	0.013 mg/L	21 days
Algae (Selenastrum capricornutum):	EL ₅₀	0.04 mg/L	96 h
Algae (Selenastrum capricornutum):	NOEL	0.01 mg/L	96 h
Microorganisms:	EL ₅₀	222.5 mg/L	3 h

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

Fishes:	LL ₅₀	> 100 mg/L	
Daphnia:	EC ₅₀	> 10000 mg/L	(48 h, OECD 202)

12.2 Persistence and degradability

Biodegradability: Hydrocarbons are inherently degradable.

12.3 Bioaccumulative potential

No data available.

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.

12.6 Endocrine disrupting properties

The mixture 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 02 06*

Synthetic engine, gear and lubricating 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.

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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 1272/2008/EC (CLP)

Skin Sens. 1 H317 calculated method

Aquatic Chronic 3 H412 calculated method

The full text of each relevant Hazard classes and cat., 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.
H317	May cause an allergic skin reaction
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
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.
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 Sens. 1A	Respiratory/skin sensitization 1A Category
Eye Dam. 1	Serious eye damage/eye irritation Category 1
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
Aquatic Chronic 1	Hazardous to the aquatic environment, Chronic Category 1

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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
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%
Ed _x	Effective Dose x%
ELINCS	European List of Notified Chemical Substances
ErC ₅₀	EC ₅₀ in terms of reduction of growth rate;
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
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
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

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Revision Indicators:

Section	Subject of change	Date	Version
1-16	Other correction	21. 01. 2009	2
2 3 5 7 9 10 12 15 16	Hazards identification Composition / information on ingredients Fire-fighting measures Handling and storage Physical and chemical properties Stability and reactivity Ecological information Regulatory information The full text of each relevant R phrase in Section 3. Other corrections	28. 10. 2009	3
3	Composition / information on ingredients	24. 03. 2010	4
3 9 1-16	Composition/information on ingredients Physical and chemical properties Revision modification according to 1272/2008/EC and 453/2010/EC	30. 11. 2012	5
3 1-16	Composition/information on ingredients Regulatory References	07. 11. 2014	6
1 2 5 14 1-16	Details of the supplier of the safety data sheet, Responsible for SDS Other hazards Fire hazards Transport information Other corrections	15. 04. 2015	7
3 9 1-16	Composition/information on ingredients Physical and chemical properties Other corrections, Revision modification	15. 11. 2016	K8
3 9 1-16	Composition/information on ingredients Physical and chemical properties Other corrections, Revision modification	10. 11. 2017	8
1-16	Revision modification according to 2020/878/EU Full revision due to composition change	15. 08. 2022	9