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

Trade name: MOL Farm JD tractor transmission and hydraulic oil

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

- Product identifier: 1.1 MOL Farm JD tractor transmission and hydraulic oil
- 1.2 Relevant identified uses of the mixture or substance and uses advised against Relevant identified uses: tractor transmission and hydraulic 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. Phone: +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	2.1 Classification of the <u>mixture</u> or substance				
	Hazard Class and Category:	Hazard s	tatement:		
	Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.		

SAFETY DATA SHEET

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



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2.2	Label elements				
	Product identification:	Trade name:	MOL Farm JD tractor transmission and hydraulic oil		
Hazardous component(s): -					
	GHS Pictogram: Signal word:	-			
Hazard statement:H412Harmful to aquatic life with long lasting effects.					
	Supplemental hazard information: -				
Precautionary statements – General: -					
	to the environment.				
	Precautionary statemen	ts – Response: -			
	Precautionary statemen	ts – Storage: -			
Precautionary statements – Disposal: P501 Dispose of contents/container in accordance with national matrix					
	Other liabilities for labe Tactile warning of dang Transport classification	ger: Not req			
2.3	Other hazards The product does not co (EC) 1907/2006.	ntain any PBT o	r vPvB substance according to annex XIII of regulation		

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SECTION 3 Composition/information on ingredients

3.2 Mixtures

Chemical description:

Mixture of refined mineral base oils containing, colorific and other additives.

Component(s) / Hazardous component(s):

Name	EU number	CAS number	Hazard classes and cat.	Hazard statements	Conc. %(m/m)
Base oil – unspecified, hydrotreated heavy paraffinic, C20-C50* REACH Registr. Nr.:	265-157-1	64742-54-7	((Note L)	-	max. 90
01-2119484627-25 Lubricating oils (petroleum), C24-C50* REACH Registr. Nr.: 01-2119489969-06	309-877-7	101316-72-7	- (Note L)	-	max. 80
Lubricating oils (petroleum), C18-C40* REACH Registr. Nr.: 01-2119486987-11	305-594-8	94733-15-0	(Note L)	-	max. 75
Distillates (petroleum), solvent-dewaxed heavy paraffinic C20- C50* REACH Registr. Nr.: 01-2119471299-27	265-169-7	64742-65-0	(Note L)	_	max. 75
Distillates (petroleum), solvent-refined heavy paraffinic* REACH Registr. Nr.: 01-2119474878-16	265-090-8	64741-88-4	(Note L)	-	max. 75
Lubricating oils* REACH Registr. Nr.: 01-2119495601-36	278-012-2	74869-22-0	(Note L)	-	max. 75
Distillates (petroleum), dewaxed light paraffinic, hydrotreated REACH Registr. Nr.: 01-2119488517-24	295-301-9	91995-40-3	(Note L)	-	max. 6.0
Phenol, (tetrapropenyl) derivatives REACH Registr. Nr.: no data	616-100-8	74499-35-7	Skin Corr. 1C Eye Dam. 1 Repr. 1B Aquatic Acute 1 Aquatic Chronic 1	H314 H318 H360F H400 (M=10) H410 (M=10)	<0.04

*: with exposure limit

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

Trade name:

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



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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.

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- Inhalation: Remove the affected person to fresh air. If rapid recovery does not occur, obtain medical attention.
- Skin contact: 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 need Not required.

SECTION 5 Fire-fighting measures

Fire hazards: Combustible.

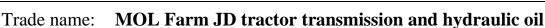
5.1 Extinguishing media Suitable extinguishing media: Foam, carbon dioxide, dry chemical powder.

> Unsuitable extinguishing media: Water jet.

 5.2 Special hazards arising from the <u>mixture</u> or substance Hazardous combustion products: On burning, carbon dioxide, carbon monoxide, sulphur oxides, phosphor oxides, various

hydrocarbons and soot can be formed.

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



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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. 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.

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

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

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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) Tractor transmission and hydraulic 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. In case of exceeded exposure-limits respiratory protection with particle-filter is recommended.
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:	Protective goggles, at potential of splashing (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:	green, clear	
	Odour:	characteristic	

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

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	Change in physical state:		
	Pour point (ISO 3016):		typ36°C
	Boiling point:		not available
	Others:		
	Flash point (COC) (EN	ISO 2592):	typ. 220°C
	Ignition point (EN ISO	2592):	not available
	Autoignition temperatur		not available
	Explosive properties:		not explosive
	Oxidizing properties:		not oxidize
	Vapour pressure at 20°C	2:	negligible
	Density at 15°C (EN IS	O 12185):	$0.860 - 0.880 \text{ g/cm}^3$
	Solubility in water:		practically insoluble in water
	Solubility in other solve	ents:	gasoline, kerosene, toluene, etc.
	n-Octanol/water partition	on coefficient:	not available
	Vapour density:		not available
	Heating value:		inf. 38 000 kJ/kg
	Kinematic viscosity at 4	40°C (EN ISO 3104):	typ. 60 mm ² /s
	Kinematic viscosity at 1	00°C (EN ISO 3104):	typ. 9.4 mm ² /s
	pH:		not applicable
9.2	Other information		
	no data available		
SEC	CTION 10 Stability and	reactivity	
	·	-	
	Reactivity:	Dangerous reactivity r	
	Chemical stability:	No decomposition if s	tored and handled properly.
10.3	Possibility of hazardous	N - 4 1-11	
10 4	reactions:	Not known.	0000000

10.4 Conditions to avoid: Direct heat or ignition sources. Strong oxidizing agents. 10.5 Incompatible materials: No dangerous decomposition products are formed under normal 10.6 Hazardous decomposition conditions. Hazardous combustion products: See Section 5. products:

SECTION 11 Toxicological information

11.1	Information on to	xicological effects			
	Acute toxicity:				
	Oral:	LD ₅₀ (rat)	> 2000	mg/kg	(based on components)
	Dermal:	LD ₅₀ (rabbit)	> 2000	mg/kg	(based on components)

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Co	omponents:	· · · · · · · · · · · · · · · · · · ·			
	-	n), solvent-dewaxed heavy	-		
	Oral:	LD_{50} (rat)	> 5000	00	
	Dermal:	LD ₅₀ (rabbit)	> 5000	00	
	Inhalation:	LC_{50} (rat)	> 5.00	mg/L (4 h)	
	Lubricating oils (petr	oleum), C24- C50:			
	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
	Distillates (petroleum	n), solvent-refined heavy	oaraffinio	2	
	Oral:	LD_{50} (rat)	> 5000		
	Dermal:	LD ₅₀ (rabbit)	> 5000		
	Inhalation:	LC_{50} (rat)		mg/L (4 h)	
	Dess sil unanssifie	d herdnetnested heerer non	offinio (C20 C50	
	-	d, hydrotreated heavy par			
	Oral:	LD_{50} (rat)	> 5000		
	Dermal:	LD ₅₀ (rabbit)	> 5000		
	Inhalation:	LC_{50} (rat)	> 5.00	mg/L (4 h)	
	Lubricating oils				
	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
	Lubricating oils (petr	oleum). C18-C40			
	Oral:	LD_{50} (rat)	> 5000	mg/kg	
	Dermal:	LD ₅₀ (rabbit)	> 2000		
	Inhalation:	LC_{50} (rat)	> 5.53	00	
	Distillator (notroloum) demond light genetic	a hardua	440 o 4 o d	
	· -	n), dewaxed light paraffin			
	Oral:	LD_{50} (rat)	> 5000	00	
	Dermal:	LD ₅₀ (rabbit)	> 2000		
	Inhalation:	LC_{50} (rat)	> 5.53	mg/L	
	Phenol, (tetrapropeny	vl) derivatives			
	Oral:	LD_{50} (rat)	2200	mg/kg	OECD 401
	Dermal:	LD ₅₀ (rabbit)	15000	mg/kg	OECD 402
		-			

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

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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 classification as a carcinogen need not apply according to 1272/2008/EC, because it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

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

SECTION 12 Ecological information

12.1	Toxicity	No data for the	product.	
	Components:			
	Distillates (petroleum), solvent-dew	Distillates (petroleum), solvent-dewaxed heavy paraffinic C20- C50		
	Fish:	LL/EL/IL ₅₀	>100 mg/L	
	Crustacea:	LL/EL/IL ₅₀	>100 mg/L	
	Algae:	LL/EL/IL ₅₀	>100 mg/L	
	Microorganisms:	LC/EC/IC ₅₀	>100 mg/L	
	Fish:	NOEC/NOEL	>100 mg/L	
	Crustacea:	NOEC/NOEL	>1 - ≤10 mg/L	
	Lubricating oils (petroleum), C24- C50:			
	Fish:	LC_{50}	>100 mg/L	(LL50)
	Daphnia:	EC_{50}	>10 000 mg/L	· · · ·
				OECD 202)
	Distillates (petroleum), solvent-refined heavy paraffinic			
	Fish (Pimephales promelas):	LC_{50}	>100 mg/L	96 h
	Daphnia (Daphnia magna):	EL_{50}	>10 000 mg/L	48 h



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



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(OECD 201)

mg/L

mg/L

mg/L

mg/L

>1000 mg/L

0.1 day

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Daphnia (Daphnia magna): Algae (Pseudokirchneriella subcapitata): Activated sludge	NOEC NOEL		mg/L mg/L	72 h
(Photobacterium phosphoreum):	NOEL	1.93	mg/L	96 h
Base oil – unspecified, hydrotreated	heavy paraffi	nic, C20-C50		
Fish (Pimephales promelas):	NOEL	≥100	mg/L	96 h
Fish (Oncorhynchus mykiss):	NOEL	>1000	mg/L	28 days
Daphnia (Daphnia magna):	NOEL	> 10 000	mg/L	48 h
Daphnia (Daphnia magna):	NOEL	> 100	mg/L	21 days
Algae (Pseudokirchinella				
subcapitata):	NOEL	≥100	mg/L	72 h
Lubricating oils				
Fish:	LL50	≥100	mg/L	96 h
Fish:	NOEL	≥100	mg/L	96 h
Daphnia (Daphnia magna):	EL50	>10 000	mg/L	48 h
				(OECD 202)
Daphnia (Daphnia magna):	NOEL	> 1000	mg/L	48 h
Daphnia (Daphnia magna):	NOEL	10	mg/L	(OECD 211)
Algae:	NOEL	≥100	mg/L	72 h

Microorganisms (activated sludge):

Lubricating oils (petroleum), C	18-C40	
Fish:	LC_{50}	> 100
Daphnia:	EC50	> 100
Other aquatic organisms:	EC50	> 100
Other living beings:	TLM	>1
Distillates (petroleum), dewaxe	d light paraffinic, hy	drotreated
Fish:	LC_{50}	> 100
Daphnia:	EC_{50}	> 100
Other aquatic organisms:	EC_{50}	> 100
Other living beings:	TLM	>1

	· r · · · ·			
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	
Phenol, (tetrapropenyl) derivatives				
Fish (Fat-headed carp):	LC ₅₀	40	mg/L	96 h
Daphnia:	EC50	0.037	mg/L	48 h
Crustacea (Mysidopsis Bahia):	EC50	>0.58	mg/L	96 h
Daphnia:	EC_{50}	0.0079	mg/L	21 days
Daphnia:	NOEC	0.0037	mg/L	21 days
Algae:	EC50	0.36	mg/L	72 h

EC50

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12.2	Persistence and degradability	
	Biodegradability:	Hydrocarbons are inherently degradable.
	Phenol, (tetrapropenyl) derivatives	25 % (28 days, OECD TG 301 B)
12.3	Bioaccumulative potential	No data available.
12.4	Mobility	
	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.
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.
		Spills may form a film on water surfaces causing
		impaired oxygen transfer.
	Water hazard class (German):	WGK 2 (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 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:		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 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.



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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)

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Aquatic Chronic 3 H412 calculation method

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.
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

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

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COD	Chemical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Carcinogenic, Mutagenic or toxic to Reproduction
DMEL	Chemical Oxygen Demand
DNEL	Chemical Safety Assessment
ECHA	Chemical Safety Report
Ecx	Effective Concentration x%
Edx	Effective Dose x%
ELINCS	European List of Notified Chemical Substances
ErC50	EC50 in terms of reduction of growth rate;
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
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
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	02.07.2009	2
3	Composition/information on ingredients	22.11.2012	3
9	Physical and chemical properties		
1-16	Regulatory information, other corrections.		
	Revision modification according to 1272/2008/EC and		
	453/2010/EC		

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

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Section	Subject of change	Date	Version
1	Name modification	11.02.2015	4
1-16	Other corrections		
1	Details of the supplier of the safety data sheet,	18.06.2015	5
	Responsible for SDS		
2	Other hazards		
3	Composition/information on ingredients		
5	Fire hazards		
12	Ecological information		
14	Transport information		
1-16	Other corrections		
2	Hazards identification	02.10.2018	6
3	Composition/information on ingredients		
9	Physical and chemical properties		
11	Toxicological information		
12	Ecological information		
1-16	Other corrections		
2	Hazards identification	25.11.2020	7
3	Composition/information on ingredients		
4.2	Most important symptoms and effects, both acute and		
	delayed		
11	Toxicological information		
12	Ecological information		