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

1.1 Product identifier

hydraulic fluid Article number: 06162, 86162 UFI: N12J-Y0X7-500J-W51D

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

1.2.1 Relevant uses

Lubricant

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Ferdinand Bilstein GmbH + Co. KG Wilhelmstr. 47 58256 Ennepetal / GERMANY Phone +49 2333 911-0 Fax +49 2333 911-444 Homepage www.febi.com E-mail info@febi.com

	Technical information	info@febi.com
	Safety Data Sheet	info@febi.com
1.4	Emergency telephone number	

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

Address enquiries to

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms

Signal word	DANGER
Contains:	Distillates (petroleum), hydrotreated light naphthenic
Hazard statements	H304 May be fatal if swallowed and enters airways.
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor. P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents / container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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2.3 Other hazards

Physico-chemical hazards	No particular hazards known.
Human health dangers	Frequent persistent contact with the skin can cause skin irritation. If swallowed or in the event of vomiting, risk of product entering the lungs.
Environmental hazards	Does not contain any PBT or vPvB substances. Contains no ingredients with endocrine-disrupting properties.
Other hazards	No particular hazards known.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
50 - < 100	Distillates (petroleum), hydrotreated light naphthenic
	CAS: 64742-53-6, EINECS/ELINCS: 265-156-6, EU-INDEX: 649-466-00-2, Reg-No.: 01-2119480375-34
	GHS/CLP: Asp. Tox. 1: H304
10 - < 20	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract)
	CAS: 72623-86-0, EINECS/ELINCS: 276-737-9, EU-INDEX: 649-221-00-X, Reg-No.: 01-2119474878-16-XXXX
	GHS/CLP: Asp. Tox. 1: H304
1 - < 10	Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)
	CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX
	GHS/CLP: Asp. Tox. 1: H304

Comment or	component	parts
------------	-----------	-------

For full text of H-statements: see SECTION 16. Contains less than 3% w/w DMSO-extract (only for mineral oils)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Change soaked clothing.			
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.			
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.			
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.			
Ingestion	Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Get medical advice.			

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed or in the event of vomiting, risk of product entering the lungs. Treat symptomatically. Forward this sheet to your doctor.

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SEC	TION 5: Fire-fighting measures				
5.1	Extinguishing media Suitable extinguishing media Extinguishing media that must not be used	Foam, dry powder, water spray jet, carbon dioxide Full water jet			
5.2	Special hazards arising from the substance or mixture				
Not combusted hydrocarbons. Risk of formation of toxic pyrolysis products. Carbon monoxide (CO)					
5.3	Advice for firefighters				
		Use self-contained breathing apparatus. Do not inhale explosion and/or combustion gases.			
		Cool containers at risk with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.			
SEC	TION 6: Accidental release measur	res			
6.1	Personal precautions, protective	equipment and emergency procedures			
		High risk of slipping due to leakage/spillage of product. Forms slippery surfaces with water.			
6.2	Environmental precautions				
		Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.			
6.3	6.3 Methods and material for containment and cleaning up				
	Take up with absorbent material (e.g. general-purpose binder). Dispose of absorbed material in accordance within the regulations.				
6.4	Reference to other sections				
		See SECTION 8+13			
SEC	TION 7: Handling and storage				
7.1	Precautions for safe handling				
		Avoid formation of aerosols.			
		The product is combustible.			
		Do not eat, drink or smoke when using this product. Use barrier skin cream. Wash face and/or hands before break and end of work. Cloths contaminated with product should not be kept in trouser pockets. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse.			
7.2	Conditions for safe storage, inclu	ding any incompatibilities			
		Keep only in original container. Prevent penetration into the ground.			
		Do not store together with oxidizing agents.			
		Keep container tightly closed. Keep container in a well-ventilated place. Protect from heat/overheating.			

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7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 **Control parameters**

Ingredients with occupational exposure limits to be monitored (UK)

Substance				
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)				
CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX				
Long-term exposure: 5 mg/m ³ , oil mist				
Short-term exposure (15-minute): 10 mg/m ³				

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

C	Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6		
l	ndustrial, inhalative, Long-term - local effects, 5,4 mg/m ³		
C	Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7		
l	ndustrial, inhalative, Long-term - systemic effects, 2.73 mg/m ³		
l	ndustrial, inhalative, Long-term - local effects, 5.58 mg/m ³		
l	ndustrial, dermal, Long-term - systemic effects, 970 µg/kg bw/day		
ç	eneral population, inhalative, Long-term - local effects, 1.19 mg/m ³		
general population, oral, Long-term - systemic effects, 740 µg/kg bw/day			
	ubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 7262 36-0		
h	ndustrial, inhalative, Long-term - systemic effects, 2.73 mg/m ³		
h	ndustrial, inhalative, Long-term - local effects, 5.58 mg/m³		
l	ndustrial, dermal, Long-term - systemic effects, 970 µg/kg bw/day		
g	eneral population, inhalative, Long-term - local effects, 1.19 mg/m ³		
ç	jeneral population, oral, Long-term - systemic effects, 740 μg/kg bw/day		

PNEC

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 oral (food), 9,33 mg/kg Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

oral (food), 9.33 mg/kg food

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8.2 Exposure controls Additional advice on system design Ensure adequate ventilation on workstation. General exposure limit for oil mist should be noted. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances. Eye protection If there is a risk of splashing: Safety glasses. (EN 166:2001) Hand protection The details concerned are recommendations. Please contact the glove supplier for further information. > 0,4 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3). > 0,4 mm; Neoprene, >480 min (EN 374-1/-2/-3). Skin protection light protective clothing Personal protective equipment should be selected specifically for the working place, Other depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid contact with eyes and skin. Breathing apparatus in the event of aerosol or mist formation. **Respiratory protection** Short term: filter apparatus, combination filter A-P1. (DIN EN 14387) Thermal hazards none Delimitation and monitoring of the Comply with applicable environmental regulations limiting discharge to air, water and soil. environmental exposition

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Physical state	liquid
	Form	liquid
	Color	green
	Odor	characteristic
	Odour threshold	not relevant
	pH-value	not applicable
	pH-value [1%]	not applicable
	Boiling point or initial boiling point and boiling range [°C]	No information available.
	Flash point [°C]	152 (EN ISO 2592)
	Flammability	No information available.
	Lower explosion limit	No information available.
	Upper explosion limit	No information available.
	Oxidising properties	no
	Vapour pressure/gas pressure [kPa]	No information available.
	Density [g/cm³]	0,87 (15 °C / 59,0 °F)
	Relative density	not determined
	Bulk density [kg/m ³]	not applicable
	Solubility in water	immiscible
	Solubility other solvents	No information available.
	Partition coefficient n-octanol/water (log value)	No information available.
	Kinematic viscosity	17,1 mm²/s (40° C)
	Relative vapour density	No information available.
	Melting point [°C]	No information available.
	Auto-ignition temperature [°C]	No information available.
	Decomposition temperature [°C]	No information available.
	Particle characteristics	No information available.
2	Other information	

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

See SECTION 7.2. Strong heating.

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10.5 Incompatible materials

not relevant

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

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

Acute oral toxicity

Product Based on the available information, the classification criteria are not fulfilled.

Substance
Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6
LD50, oral, Rat, > 5000 mg/kg bw
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LD50, oral, Rat, 5000 mg/kg bw
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623- 86-0
LD50, oral, Rat, 5000 mg/kg bw

Acute dermal toxicity

Product

dermal, Based on the available information, the classification criteria are not fulfilled.

Substance

					<u></u>
l) entrillator (notroloum)	hydrotra	aatad liaht r	anhthonic	CAS: 64742-53-6
Distillatos	polioiouiii),	inguiou	calcu nynt i		070.07772 00 0

LD50, dermal, Rabbit, > 2000 mg/kg bw

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7

LD50, dermal, Rabbit, 2000 - 5 00 mg/kg bw

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

LD50, dermal, Rabbit, 2000 - 5000 mg/kg bw

Acute inhalational toxicity

Product

inhalative, Based on the available information, the classification criteria are not fulfilled.

Substance

Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6

LC50, inhalative, Rat, > 5,53 mg/l/4h (dust/mist)

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7

LC50, inhalative, Rat, 2.18 - 5.53 mg/L air, 4h

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

LC50, inhalative, Rat, 2.18 - 5.53 mg/L air, 4h

Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623- 86-0
Eye, non-irritating

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance

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Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0 dermal, non-irritating

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

Substance
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623- 86-0
dermal, non-sensitizing

Specific target organ toxicity -Based on the available information, the classification criteria are not fulfilled. single exposure

Specific target organ toxicity repeated exposure

Based on the available information, the classification criteria are not fulfilled.

Substance

Substance

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7

NOAEL, dermal, Rat, 30 - 2000 mg/kg bw/day

NOAEL, dermal, Rabbit, 1000 mg/kg bw/day

NOAEC, inhalative, Rat, 980 mg/m³ air

LOAEL, oral, Rat, 125 mg/kg bw/day

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

NOAEL, dermal, Rat, 30 - 2000 mg/kg bw/day

NOAEC, inhalative, Rat, 980 mg/m³ air

LOAEL, oral, Rat, 125 mg/kg bw/day

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

•	Substance
	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623- 86-0
i	in vitro, negativ

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

- Fertility

Substance
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on fertility), no adverse effect observed
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623- 86-0
NOAEL, oral, Rat, 1000 mg/kg bw/day

- Development

Substance	
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7	
NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on fertility), no adverse effect observed	

Carcinogenicity Aspiration hazard

Based on the available information, the classification criteria are not fulfilled. Based on the available information, the classification criteria are fulfilled. On basis of test data

General remarks

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Toxicological data of complete product are not available. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

11.2 Information on other hazards 11.2.1 Endocrine disrupting

Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information

none

SECTION 12: Ecological information

12.1 Toxicity

properties

Product Based on the available information, the classification criteria are not fulfilled.

Substance
Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6
LC50, (96h), fish, > 100 mg/l
IC50, (48h), Algae, > 100 mg/l
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
EL50, (48h), Invertebrates, 10 g/L
NOELR, (14d), fish, 1 mg/L
LL50, (96h), Invertebrates, 10 g/L
LL50, (96h), fish, 100 mg/L
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623- 86-0
NOELR, (14d), fish, 1 g/L
LL50, (96h), Invertebrates, 10 g/L
LL50, (96h), fish, 100 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

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12.7 Other adverse effects

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

	In according to RoHS! Coordinate disposal with the authorities if necessary. Dispose of as hazardous waste.
Waste no. (recommended)	130205* mineral-based non-chlorinated engine, gear and lubricating oils
Contaminated packaging	
	Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
Waste no. (recommended)	150102 150104 150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID	NO DANGEROUS GOODS
ADR/RID	

Inland navigation (ADN)	NO DANGEROUS GOODS
-------------------------	--------------------

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS" IMDG

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

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14.3	Transport hazard class(es) Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable
14.4	Packing group	
	Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable
14.5	Environmental hazards	
	Transport by land according to ADR/RID	no
	Inland navigation (ADN)	no
	Marine transport in accordance with IMDG	no
	Air transport in accordance with IATA	no
14.6	Special precautions for user	
	Relevant information under SECTION 6 t	to 8.

not applicable

14.7 Maritime transport in bulk according to IMO instruments

not applicable

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SECTION 15: Regulatory information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	EEC-REGULATIONS	2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
	- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
	- Annex I (REACH)	The product is not subject to Annex I restrictions.
	- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances \geq 0.1% that are subject to authorisation.
	- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\ge 0.1\%$ that are restricted.
		According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3
	TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)
	NATIONAL REGULATIONS (UK):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
	- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
	- VOC (2010/75/CE)	0 %
15.2 Chemical safety assessment		
		not applicable
SECTION 16: Other information		
16.1	Hazard statements (SECTION 3)	

H304 May be fatal if swallowed and enters airways.

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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure ATE = acute toxicity estimate CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level EC50 = Median effective concentration ECB = European Chemicals Bureau EEC = European Economic Community EINECS = European Inventory of Existing Commercial Chemical Substances EL50 = Median effective loading ELINCS = European List of Notified Chemical Substances EmS = Emergency Schedules GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IC50 = Inhibition concentration, 50% IMDG = International Maritime Code for Dangerous Goods IUCLID = International Uniform ChemicaL Information Database IVIS = In vitro irritation score LC50 = Lethal concentration, 50% LD50 = Median lethal dose LC0 = lethal concentration, 0% LOAEL = lowest-observed-adverse-effect level LL50 = Median lethal loading LQ = Limited Quantities MARPOL = International Convention for the Prevention of Marine Pollution from Ships NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration PBT = Persistent, Bioaccumulative and Toxic substance PNEC = Predicted No-Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals STP = Sewage Treatment Plant TLV®/TWA = Threshold limit value - time-weighted average TLV®STEL = Threshold limit value - short-time exposure limit VOC = Volatile Organic Compounds vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (On basis of test data) 3.2

Modified position