according to Regulation (EC) No. 1907/2006 (REACH)



version number V 2.0 date of compilation 11.11.2020

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

1.1 product identifier

trade name

OEST IXELON LT 200 EP * article number: 42099

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

relevant identified uses

Lubricating oil

PROFESSIONAL, INDUSTRIAL, CONSUMER

1.3 details of the supplier of the safety data sheet

Georg Oest Mineralölwerk GmbH & Co. KG Georg-Oest-Str. 4 72250 Freudenstadt

Telephone +49 7441/539-0

e-mail (competent person) productsafety@oest.de

1.4 emergency telephone number

Diese Nummer ist nur zu Bürozeiten besetzt: 08:00 - 17:00

+49 7441/539-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word warning

- Pictograms

GHS07



- Hazard statements

H319 Causes serious eye irritation.

according to Regulation (EC) No. 1907/2006 (REACH)



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- Precautionary statements

P280 Wear protective gloves/eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes	Specific Conc. Limits	M-Factors
Polysulfides, di- tert-dodecyl	CAS No 68425-15-0	5.5-<10	Aquatic Chronic 4 / H413				
	EC No 270-335-7						
	REACH Reg. No 01- 2119540516- 41						
Zinc bis[O,O- bis(2-ethylhexyl)] bis(dithiophospha te)		1-<2.5	Eye Dam. 1 / H318 Aquatic Chronic 2 / H411	\$		Eye Dam. 1; H318: C ≥ 50 % Eye Irrit. 2; H319: C ≥ 50 %	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

according to Regulation (EC) No. 1907/2006 (REACH)



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Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Fire extinguishing powder, Carbon dioxide (CO2), Sand

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

according to Regulation (EC) No. 1907/2006 (REACH)



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6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

Never place chemicals in containers that are normally used for food or drink.

7.2 Conditions for safe storage, including any incompatibilities

Control of effects

No special measures are necessary. No hazardous reaction when handled and stored according to provisions.

Protect against external exposure, such as

Heat, Frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

Occupa	Occupational exposure limit values (Workplace Exposure Limits)										
Countr y	Name of agent	CAS No	Identifi er	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling- C [ppm]		Notatio n	Source
DE	di-tert-dodecyl- polysulfide	68425-15-0	MAK		5		20			r	DFG
DE	polysulfide, di-tert- dodecyl-	68425-15-0	AGW		5		20			r, Y	TRGS 900

Notation

TWA

ceiling value is a limit value above which exposure should not occur Ceiling-C

respirable fraction STEL

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-

weighted average (unless otherwise specified) a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value

(BGW) are adhered to

Relevant DNELs of components of the mixture									
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time			
Polysulfides, di-tert- dodecyl	68425-15-0	DNEL	32.9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects			
Polysulfides, di-tert- dodecyl	68425-15-0	DNEL	46.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects			
Zinc bis[O,O-bis(2-	4259-15-8	DNEL	6.6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic			

according to Regulation (EC) No. 1907/2006 (REACH)



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ethylhexyl)] bis(dithiophosphate)						effects
Zinc bis[O,O-bis(2- ethylhexyl)] bis(dithiophosphate)	4259-15-8	DNEL	9.6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Relevant PNECs of	components	of the mix	ture			
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Polysulfides, di-tert- dodecyl	68425-15-0	PNEC	1 ^g / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Polysulfides, di-tert- dodecyl	68425-15-0	PNEC	3.85 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)
Polysulfides, di-tert- dodecyl	68425-15-0	PNEC	0.385 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)
Zinc bis[O,O-bis(2- ethylhexyl)] bis(dithiophosphate)	4259-15-8	PNEC	4 ^{µg} / _I	aquatic organisms	freshwater	short-term (single instance)
Zinc bis[O,O-bis(2- ethylhexyl)] bis(dithiophosphate)	4259-15-8	PNEC	4.6 ^{µg} / _I	aquatic organisms	marine water	short-term (single instance)
Zinc bis[O,O-bis(2- ethylhexyl)] bis(dithiophosphate)	4259-15-8	PNEC	3.8 ^{mg} / _I	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Zinc bis[O,O-bis(2- ethylhexyl)] bis(dithiophosphate)	4259-15-8	PNEC	0.322 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)
Zinc bis[O,O-bis(2- ethylhexyl)] bis(dithiophosphate)	4259-15-8	PNEC	0.032 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)
Zinc bis[O,O-bis(2- ethylhexyl)] bis(dithiophosphate)	4259-15-8	PNEC	0.062 ^{mg} / _{kg}	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

No special handling advices are necessary.

Individual protection measures (personal protective equipment)

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material (long-term)

NBR: acrylonitrile-butadiene rubber (0,425 mm), Breakthrough times of the glove material: 240-480 min

- Type of material (short-term)

NBR: acrylonitrile-butadiene rubber (0,12 mm), Breakthrough times of the glove material: 10-30 min

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

according to Regulation (EC) No. 1907/2006 (REACH)



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Respiratory protection

not required

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

physical state liquid (paste)

colour acc. to product description

odour characteristic

Other safety parameters

pH (value) not determined melting point/freezing point not determined initial boiling point and boiling range not determined flash point >200 °C

evaporation rate not determined flammability (solid, gas) not relevant, (fluid) explosive limits not determined vapour pressure not determined

vapour density this information is not available

relative density information on this property is not available

not determined

Solubility(ies) not determined water solubility insoluble

Partition coefficient

density

- n-octanol/water (log KOW) this information is not available

auto-ignition temperature not determined viscosity not determined

explosive properties none oxidising properties none

9.2 other information there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

according to Regulation (EC) No. 1907/2006 (REACH)



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10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

The classification criteria for these hazard classes are not met.

Acute toxicity of components of the mixture							
Name of substance	CAS No	Exposure route	Endpoint	Value	Species		
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	oral	LD50	3,100 ^{mg} / _{kg}	rat		
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	dermal	LD50	>5,000 ^{mg} / _{kg}	rabbit		

Skin corrosion/irritation

The classification criteria for this hazard class are not met.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

The classification criteria for these hazard classes are not met.

Germ cell mutagenicity

The classification criteria for this hazard class are not met.

Carcinogenicity

The classification criteria for this hazard class are not met.

Reproductive toxicity

The classification criteria for this hazard class are not met.

Specific target organ toxicity - single exposure

The classification criteria for this hazard class are not met.

Specific target organ toxicity - repeated exposure

The classification criteria for this hazard class are not met.

Aspiration hazard

The classification criteria for this hazard class are not met.

SECTION 12: Ecological information

12.1 Toxicity

according to Regulation (EC) No. 1907/2006 (REACH)



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Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 1, slightly hazardous to water (Germany)

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available

12.6 Other adverse effects

Endocrine disrupting potential None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

Waste code (EU)

- Product

12 01 12* spent waxes and fats

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1	UN number	not subject to transport regulations
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14.2 UN proper shipping name not relevant

14.3 Transport hazard class(es) none

14.4 Packing group not assigned to a packing group

14.5 Environmental hazards non-environmentally hazardous acc. to the dangerous

goods regulations

14.6 Special precautions for user

There is no additional information.

according to Regulation (EC) No. 1907/2006 (REACH)



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14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)						
Name of substance	Name acc. to inventory	No				
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	3				

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list none of the ingredients are listed

Seveso Directive

2012/1	2012/18/EU (Seveso III)							
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes					
	not assigned							

Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content 0 %

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

none of the ingredients are listed

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

according to Regulation (EC) No. 1907/2006 (REACH)



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Wassergefährdungsklasse, WGK (water hazard class)

1 slightly hazardous to water

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances		1-<5 wt%	0.5 ^{kg} / _h	50 ^{mg} / _{m³}	3)

Notation

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK)

10 (combustible liquids)

National inventories

Country	Inventory	Status
CA	DSL	all ingredients are listed
CN	IECSC	not all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
US	TSCA	all ingredients are listed

Legend

DSL Domestic Substances List (DSL)

ECSI EC Substance Inventory (EINECS, ELINCS, NLP)

IECSC Inventory of Existing Chemical Substances Produced or Imported in China

REACH Reg. REACH registered substances TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
2.3	Other hazards	Other hazards: Special danger of slipping by leaking/spilling product.	yes
3.2		Mixtures: change in the listing (table)	yes
5.1	Suitable extinguishing media: Water, Foam, ABC-powder	Suitable extinguishing media: Fire extinguishing powder, Carbon dioxide (CO2), Sand	yes
6.3	Advice on how to contain a spill: Covering of drains, Take up mechanically	Advice on how to contain a spill: Covering of drains	yes
6.3	Advice on how to clean up a spill: Take up mechanically.	Advice on how to clean up a spill: Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder	yes

a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

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6.3		Appropriate containment techniques: Use of adsorbent materials.	yes
7.1	- Measures to prevent fire as well as aerosol and dust generation: Use only in well-ventilated areas. Ground/bond container and receiving equipment.	- Measures to prevent fire as well as aerosol and dust generation: Use only in well-ventilated areas.	yes
8.2	Hand protection: Wear protective gloves.	Hand protection: Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.	yes
9.1	Physical state: solid	Physical state: liquid (paste)	yes
9.1	pH (value): not applicable	pH (value): not determined	yes
9.1	Flammability (solid, gas): this material is combustible, but will not ignite readily	Flammability (solid, gas): not relevant, (fluid)	yes
9.1	Explosion limits of dust clouds: not determined		yes
9.1		Explosive limits: not determined	yes
9.1	Viscosity: not relevant (solid matter)	Viscosity: not determined	yes
10.4	Hints to prevent fire or explosion: The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.		yes
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)	yes
15.1	Storage class (LGK): 11 (combustible solids)	Storage class (LGK): 10 (combustible liquids)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
AGW	Workplace exposure limit	
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
Ceiling-C	Ceiling value	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim	
DGR	Dangerous Goods Regulations (see IATA/DGR)	

according to Regulation (EC) No. 1907/2006 (REACH)



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DNEL	Derived No-Effect Level	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
Eye Dam.	Seriously damaging to the eye	
Eye Irrit.	Irritant to the eye	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008	
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval	
LGK	Lagerklasse (storage class according to TRGS 510, Germany)	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No-Effect Concentration	
ppm	Parts per million	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
STEL	Short-term exposure limit	
SVHC	Substance of Very High Concern	
TRGS	Technische Regeln für GefahrStoffe (technical rules for hazardous substances, Germany)	
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)	
TWA	Time-weighted average	
VOC	Volatile Organic Compounds	
vPvB	Very Persistent and very Bioaccumulative	

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H318	Causes serious eye damage.

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H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.