

Safety Data Sheet

according to Regulation (EC) No 1907/2006

SRS Rekord 20W-20

Revision date: 01.12.2020

Page 1 of 12

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

SRS Rekord 20W-20

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

engine oil

Uses advised against

none

1.3. Details of the supplier of the safety data sheet

Company name: SRS Schmierstoff Vertrieb GmbH
Street: Neuenkirchener Straße 8
Place: D-48497 Salzbergen
Telephone: 05976 - 945-0
Responsible Department: Abt. Produktsicherheit: info.reach@srs-oil.de

1.4. Emergency telephone number:

Gift-Informationszentrum Nord (Göttingen)
Telefon 0551-19240

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes serious eye irritation.

2.2. Label elements**Regulation (EC) No. 1272/2008**

Signal word: Warning

Pictograms:

**Hazard statements**

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

Safety Data Sheet

according to Regulation (EC) No 1907/2006

SRS Rekord 20W-20

Revision date: 01.12.2020

Page 2 of 12

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
	Mineral Oil * (64742-54-7, 64742-65-0, 64742-55-8, 64742-56-9)			1 - < 5 %
	Asp. Tox. 1; H304			
	Calcium branched alkyl phenate sulphide (overbased)			1 - < 5 %
	Aquatic Chronic 4; H413			
68457-79-4	Phosphorodithionic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts			1 - < 5 %
	270-608-0		01-2119493628-22	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411			
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched			< 0.1 %
	310-154-3	604-092-00-9	01-2119513207-49	
	Repr. 1B, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H360 H314 H318 H400 H410			

Full text of H and EUH statements: see section 16.

Specific concentration limits and M-factors

CAS No	EC No	Chemical name	Quantity
	Specific concentration limits and M-factors		
68457-79-4	270-608-0	Phosphorodithionic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	1 - < 5 %
	Skin Irrit. 2; H315: $\geq 15 - 100$ Eye Dam. 1; H318: $\geq 3 - 100$ Eye Irrit. 2; H319: $\geq 1 - < 3$		
121158-58-5	310-154-3	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched	< 0.1 %
	M akut; H400: M=10 M chron.; H410: M=10		

Further Information

*The mineral oil can be described by one or more EINECS numbers. 265-157-1, 265-169-7, 265-158-7, 265-159-2, (REACH-no.: 01-2119484627-25, 01-2119471299-27, 01-2119487077-29, 01-2119480132-48)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if



Safety Data Sheet

according to Regulation (EC) No 1907/2006

SRS Rekord 20W-20

Revision date: 01.12.2020

Page 3 of 12

symptoms are observed, get medical advice.

4.2. Most important symptoms and effects, both acute and delayed

If swallowed or in the event of vomiting, risk of entering the lungs.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Sand. Foam. Carbon dioxide (CO₂). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

Unsuitable extinguishing media

High power water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO₂) Sulphur dioxide (SO₂) Nitrogen oxides (NO_x)

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (refer to section 8). Avoid contact with skin, eyes and clothes.

Avoid formation of oil dust.

Ventilate affected area.

Special danger of slipping by leaking/spilling product.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

No information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. (See section 8.) Avoid contact with skin, eyes and clothes.

Avoid formation of oil dust.

Do not breathe aerosol.

Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

Fire class B

Safety Data Sheet

according to Regulation (EC) No 1907/2006

SRS Rekord 20W-20

Revision date: 01.12.2020

Page 4 of 12

Further information on handling

Do not breathe vapour/aerosol.
 Avoid contact with eyes and skin.
 Advices on general occupational hygiene: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

Hints on joint storage

Do not store together with: Gas. Explosives. Oxidizing substances. Radioactive substances. Infectious substances

Further information on storage conditions

Temperature control required. Protect from light. Keep container tightly closed. Do not allow contact with air.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
68457-79-4	Phosphorodithionic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts			
Worker DNEL, long-term		inhalation	systemic	8,13 mg/m ³
Worker DNEL, long-term		dermal	systemic	11.87 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	2.06 mg/m ³
Consumer DNEL, long-term		dermal	systemic	5.93 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0.24 mg/kg bw/day
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched			
Worker DNEL, long-term		inhalation	systemic	1.762 mg/m ³
Worker DNEL, long-term		dermal	systemic	0.25 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0.79 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0.075 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0.075

PNEC values

CAS No	Substance	Value
68457-79-4	Phosphorodithionic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	
Freshwater		0,004 mg/l
Marine water		0,0046 mg/l
Freshwater sediment		0.024 mg/kg
Marine sediment		0.002 mg/kg

Safety Data Sheet

according to Regulation (EC) No 1907/2006

SRS Rekord 20W-20

Revision date: 01.12.2020

Page 5 of 12

Secondary poisoning	10,67 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	0.002 mg/kg
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched
Freshwater (intermittent releases)	0,000074 mg/l
Marine water	0,0000074 mg/l
Freshwater sediment	0,26 mg/kg
Marine sediment	0,026 mg/kg
Soil	0,118 mg/kg

Additional advice on limit values

Air limit values:

Possibility of exposure to Aerosol (Mineral oil)

Limit value (TLV-TWA) = 5 mg/ m3 - Source: ACGIH

Limit value (TLV-STEL) = 10 mg/ m3 - Source: ACGIH

STEL: short-term exposure limits

TLV: Threshold Limiting Value

TWA: time weighted average

ACGIH: American Conference of Governmental Industrial Hygienists

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation.

Protective and hygiene measures

Clean skin thoroughly after working.

Do not put any product-impregnated cleaning rags into your trouser pockets.

When using do not eat, drink or smoke.

Eye/face protection

Safety goggles with side protection. In case of increased risk add protective face shield. BS/EN 166

Hand protection

Use safety gloves of following materials: NBR (nitrile) / neopren / viton (permeationslevel 5 - 6), Cat. II according to norm EN 347/EN 388.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

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.

Skin protection

Oil-resistant and hardly inflammable protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-aerosol or mist formation

-Exceeding exposure limit values

Suitable respiratory protection apparatus: Respiratory equipment in case of nebulosity or aerosol: Use a mask

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

SRS Rekord 20W-20

Revision date: 01.12.2020

Page 6 of 12

with a filter type A2, A2/P2 or ABEK.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: liquid
Colour: clear
Odour: characteristic

Test method

pH-Value: No information available.

Changes in the physical state

Melting point: No information available.

Initial boiling point and boiling range: No information available.

Sublimation point: No information available.

Softening point: No information available.

Pour point: -30 °C ISO 3016

Flash point: 245 °C DIN ISO 2592

Sustaining combustion: No data available

Flammability

Solid: No information available.

Gas: No information available.

Explosive properties

none

Lower explosion limits: No information available.

Upper explosion limits: No information available.

Ignition temperature: No information available.

Auto-ignition temperature

Solid: No information available.

Gas: No information available.

Decomposition temperature: No information available.

Oxidizing properties

none

Vapour pressure:
(at 20 °C) No information available.

Vapour pressure:
(at 50 °C) No information available.

Density (at 15 °C): 0,887 g/cm³ DIN 51757

Bulk density: No information available.

Water solubility: Immiscible

Solubility in other solvents

No information available.

Partition coefficient: No information available.

Viscosity / dynamic: No information available.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

SRS Rekord 20W-20

Revision date: 01.12.2020

Page 7 of 12

Viscosity / kinematic: (at 40 °C)	69,5 mm ² /s DIN EN ISO 3104
Flow time:	No information available.
Vapour density:	No information available.
Evaporation rate:	No information available.
Solvent separation test:	No information available.
Solvent content:	No information available.

9.2. Other information

Solid content:	No information available.
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SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reactions known.
Refer to chapter 10.5.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
68457-79-4	Phosphorodithionic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts				
	oral	LD50 mg/kg 3600	Rat (OECD 401)	ECHA Dossier	
	dermal	LD50 mg/kg >20000	Rabbit (OECD 402)	ECHA Dossier	
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched				
	oral	LD50 mg/kg 2100	Rat	ECHA Dossier	OECD 401
	dermal	LD50 mg/kg 15000	Rabbit	ECHA Dossier	OECD 402

Irritation and corrosivity

Safety Data Sheet

according to Regulation (EC) No 1907/2006

SRS Rekord 20W-20

Revision date: 01.12.2020

Page 8 of 12

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Phosphorodithionic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts:

Specific concentration limit (SCL):

> 15% (Skin Irrit. 2)

>= 3 % (Eye Dam. 1)

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Phosphorodithionic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts:

Chronic oral toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test); Exposure time: 28d. Species: Sprague-Dawley Rat;

Result: NOAEL >= 160 mg/kg; Literature information: ECHA Dossier; In vitro mutagenicity/genotoxicity :

Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test); Result: negative. Literature information: ECHA Dossier

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched:

In vitro mutagenicity/genotoxicity: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test), OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. Literature information: ECHA Dossier;

Developmental toxicity/teratogenicity: Species: Rat ; Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEL 100 mg/kg; Literature information: ECHA Dossier; Reproductive toxicity:

Species: Sprague-Dawley Rat; Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study); Result: NOAEL 15 mg/kg; Literature information: ECHA Dossier

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.

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched:

Subchronic oral toxicity: Exposure time: 90d. Method: OECD Guideline 408 ; Species: Rat; Results: NOAEL = 100 mg/kg. Subacute oral toxicity: Exposure time: 28d. Method: OECD Guideline 407 ; Species: Rat ; Results: NOAEL = 60 mg/kg. Literature information: ECHA Dossier

Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience

Other observations

Frequent contact specially if dried out may cause skin and eye irritations.

SECTION 12: Ecological information

12.1. Toxicity

If this product contains phenol, dodecyl, branched (EC No. 310-154-3), this product is not to be classified as dangerous for the environment (H410, H411, H412) . Raw materials containing this substance have not been classified by our suppliers as hazardous to the environment (H410, H411) on the basis of test data, expert judgement or analogy assessments.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
68457-79-4	Phosphorodithionic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts					
	Acute fish toxicity	LC50 4,5 mg/l	LL50 =	96 h	Oncorhynchus mykiss	ECHA Dossier
	Acute algae toxicity	ErC50	24 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier

Safety Data Sheet

according to Regulation (EC) No 1907/2006

SRS Rekord 20W-20

Revision date: 01.12.2020

Page 9 of 12

	Acute crustacea toxicity	EC50	23 mg/l	48 h	Daphnia magna	ECHA Dossier	
	Crustacea toxicity	NOEC	0,8 mg/l	21 d	Daphnia magna	ECHA Dossier	
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched						
	Acute fish toxicity	LC50	EL 50 = 40 mg/l	96 h	Pimephales promelas	ECHA Dossier	
	Acute algae toxicity	ErC50	(0,36) mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Crustacea toxicity	NOEC	0,0037 mg/l	21 d	daphnia magna (OECD 211)	ECHA Dossier	

12.2. Persistence and degradability

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
68457-79-4	Phosphorodithionic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	1,5 %	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	25%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68457-79-4	Phosphorodithionic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	0,69
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched	7,1

BCF

CAS No	Chemical name	BCF	Species	Source
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched	2,9		

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

SRS Rekord 20W-20

Revision date: 01.12.2020

Page 10 of 12

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Informations for safe handling see chapter 7.
Informations for personal protective equipment see chapter 8.

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

not relevant

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

SRS Rekord 20W-20

Revision date: 01.12.2020

Page 11 of 12

Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII, No (mixture): 3
Observe in addition any national regulations!

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D): 2 - obviously hazardous to water

Additional information

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: not relevant

15.2 Chemical Safety Assessment
not applicable.

SECTION 16: Other information**Changes**

Rev.: 1,00 - 05.05.2015
Rev.: 1,10 - 17.07.2015
Rev.: 1,20 - 14.12.2016
Rev.: 2,00 - 22.12.2017
Rev.: 3,00 - 21.12.2018
Rev.: 4,00 - 23.12.2019; Changes in chapter: .8, 10, 15, 16
Rev.: 5,00 - 01.12.2020; Changes in chapter: 3.2, 16

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect concentration
NTP: National Toxicology Program
N/A: not applicable
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SVHC: substance of very high concern
TRGS Technische Regeln fuerGefahrstoffe
TSCA: Toxic Substances Control Act
VOC: Volatile Organic Compounds

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

SRS Rekord 20W-20

Revision date: 01.12.2020

Page 12 of 12

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method

Relevant H and EUH statements (number and full text)

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)