



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Engine oil

Print date: 24.02.2016

Part-no. S93165554

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

Product group: Engine oils

Motoröl

Engine oil

Huile moteur

Further trade names

Engine oil 5W-30 dexos2

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

Use of the substance/mixture

Used in the automobile industry

1.3. Details of the supplier of the safety data sheet

Company name: Adam Opel AG

Place: D 65423 Rüsselsheim

Telefax: +49-6142/ 749-503

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Responsible Department: IFZ Ingenieurbüro und Consulting GmbH

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1.4. Emergency telephone number:

Internationale Hotline: +49 6131 19240

United Kingdom +44 870 600 626 / 0870 600 6266

Further Information

Reference list

Apply Safety data sheet to the following products:

Part-No.	Catalogue-No.	Product name
93165554	19 42 000	Engine oil, 1 l
93165555	19 42 001	Engine oil, 2 l
93165556	19 42 002	Engine oil, 4 l
93165557	19 42 003	Engine oil, 5 l
93165558	19 42 004	Engine oil, 20 l
93165559	19 42 005	Engine oil, 60 l
93165560	19 42 006	Engine oil, 205 l
93165561	19 42 007	Engine oil, tanker
93165562	42 00 000	Engine oil, 1000 l cubitainer

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

R phrases:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Hazard categories:

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful to aquatic life with long lasting effects.

2.2. Label elements

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Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

P501 Dispose of contents/container to hazardous or special waste collection point.

Additional advice on labelling

The product is classified and labelled in accordance with the EC directives or respective national laws.

2.3. Other hazards

When the highly pressurized product comes in contact with the skin, the danger exists that it can enter the body through the skin. Consult a doctor in this case, also when no obvious injury is determinable. Although unused motor oil is not considered toxic, used motor oil can be carcinogenic, and therefore, should be handled with care.

Slipping hazard due to leakage.

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

Engine oil

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
276-738-4	Base oil – not specified	15 - 35 %
72623-87-1		
	Asp. Tox. 1; H304	
01-2119474889-13		
265-157-1	Base oil – not specified	< 20 %
64742-54-7		
	Asp. Tox. 1; H304	
01-2119484627-25		
253-249-4	Bis(nonylphenyl)amine	1 - 2.49 %
36878-20-3	R53	
	Aquatic Chronic 4; H413	
01-2119488911-28		
204-539-4	Diphenylamine	< 0.25 %
122-39-4	T - Toxic, N - Dangerous for the environment R23/24/25-33-50-53	
612-026-00-5	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Eye Irrit. 2, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H301 H311 H331 H319 H373 H400 H410	
310-154-3	Phenol, dodecyl-, branched	< 0.25 %
121158-58-5	Repr. Cat. 3, Xi - Irritant, N - Dangerous for the environment R62-36/38-50-53	
	Repr. 2, Skin Irrit. 2, Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1; H361f H315 H319 H400 H410	

Full text of R, H and EUH phrases: see section 16.



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of feeling unwell: Obtain medical attention. Show this safety data sheet to the doctor in attendance.

If unconscious, place the person in the recovery position and seek medical advice immediately. Do not administer liquids to the unconscious person and avoid vomiting.

Higher exposure: Protection is needed for the First Aider. In case of mist, spray or aerosol exposure, wear suitable personal respiratory protection and protective suit.

After inhalation

Move out of dangerous area. Move to fresh air. Lay the affected person down, and keep her or him warm and calm. In case of shortness of breath, give oxygen. If symptoms persist, call a physician.

After contact with skin

Take off contaminated clothing and shoes immediately. Wash contaminated skin areas thoroughly with soap and water. Do not use solvents or thinners. Wash skin with soap and water or special cleanser. If skin irritation persists, call a physician.

When injected under the skin, consult a doctor immediately. You must check whether surgical action is indicated. A hand surgeon must be consulted as soon as possible if the injuries are in the hand area.

After contact with eyes

Rinse with plenty of water immediately, also under the eyelids, for at least 15 minutes. Remove contact lenses after the first 1 - 2 minutes and continue flushing. If eye irritation persists, consult a specialist.

After ingestion

If swallowed, seek medical advice immediately and show this container or label.

Do not induce vomiting. Rinse mouth. Don't drink. Never give anything by mouth to an unconscious person. Aspiration of the liquid while swallowing incorrectly or vomiting can lead to serious pneumonia caused by chemicals.

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

Inhalation of vapours in high concentration may cause irritation of respiratory tract.

Skin contact with the product may cause acne.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Symptomatic treatment (decontamination and vital functions). If necessary, contact poison centre.

Splashes through the skin of a highly pressurised product are serious medical emergencies (high rates of amputations)! The injured area should be investigated with an X-ray. The injuries initially do not seem serious, but within a few hours the tissue swells, discolours and is extremely painful, together with strong sub-cutaneous necrosis. The thorough and extensive opening of the wound and the tissue underneath it is required to reduce tissue loss. The high pressure enables the product to penetrate many layers of tissue.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), ABC-chemical fire extinguisher, foam, water spray or water mist.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Incomplete incineration and thermolysis produces toxic gases. Depending on the conditions of the fire, the following combustion products could be formed/ given off: carbon monoxide (CO), carbon dioxide



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(CO₂), various hydrocarbons, aldehydes, carbon black. The inhalation of hazardous decomposition products may cause serious health damage.

5.3. Advice for firefighters

Do not breathe in the vapours and combustion gases. In the event of fire, wear self-contained breathing apparatus. Complete protection suit and compressed air breathing apparatus.

Additional information

Cool containers / tanks with sprayed water. Contaminated extinguishing water and soil must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Mop up due to the risk of slipping. Wear personal protective equipment. Provide adequate ventilation. Remove all sources of ignition.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Avoid subsoil penetration. Contact the responsible authority immediately if the product ends up in the soil, a body of water, or the sewer system. In case of an accident or when the street is contaminated with the product, notify the fire department and police department, and when necessary, the water protection authorities.

6.3. Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

On land: Contain the product immediately by taking suitable action. Soak up with oil absorbent material. Adsorption in inert material (e.g. sand, kieselguhr, acid binder, universal binder, sawdust). On water: Mop up with floating binding agents. Keep in suitable, closed containers for disposal. Dispose of the material collected according to regulations.

6.4. Reference to other sections

See also section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of aerosol. Do not breathe in vapours or spray mist. Keep away from open flames, hot surfaces, and sources of ignition. Take precautionary measures against static discharges. Keep away from combustible material. Keep away from food and drink. Do not smoke. Avoid spillage and leakage due to the risk of slipping. Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

Empty containers can contain flammable and explosive vapours. Keep product and empty container away from heat and sources of ignition. Articles impregnated with the product are to be disposed of immediately (cloth, paper, absorbent material). Preparation may charge electrostatically: always use grounding wire when transferring from one container to another. Do not use the product in the vicinity of electrical systems. Electrical systems and equipment must comply with the regulations.

Further information on handling

A high standard of personal hygiene is required. Wash hands before breaks and immediately after handling the product. See also section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Facilities must be planned in such a way that contamination of the soil and groundwater is excluded. Protect waste water treatment plants.

Store in original container. Keep container tightly closed in a dry and well-ventilated place. Protect from humid air. Keep away from heat and sources of ignition.



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Only use hydrocarbon-resistant containers, caulk, pipelines,...

Do not use unlabelled containers. Store preferably in the original packaging; otherwise copy all information from the original label onto the new packaging.

Advice on storage compatibility

Store separately from: strong oxidising agents.

Further information on storage conditions

Store in enclosed rooms. Protect from freezing. Protect from heat and direct sunlight. Smoking in the storage rooms is forbidden.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
122-39-4	Diphenylamine	-	10		TWA (8 h)	WEL
		-	20		STEL (15 min)	WEL

Additional advice on limit values

Exposure limit(s) mist : 5 mg/m³ (8 h); 10 mg/m³ (0.25 h)

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Follow the maximum workplace concentration values.

Respiratory protection measures are required when large amounts of the product are used, when the product is used in enclosed spaces or under any other circumstances, in which the explosion limit concentration is approached or even surpassed.

Personal protection equipment should comply with the relevant standards, be suitable for purpose, in good condition and maintained as specified.

Protective and hygiene measures

Avoid prolonged and intensive skin contact. Avoid skin contact with the used product. Take off all contaminated clothing immediately. Wash contaminated skin areas thoroughly with soap and water. Do not use solvents or thinners. Articles impregnated with the product are to be disposed of immediately (cloth, paper, absorbent material). When using, do not eat, drink, or smoke. Regular cleaning of equipment, work area and clothing.

Eye wash fountains and safety showers must be easily accessible.

Eye/face protection

In case of risk of splashing, wear protective glasses. Safety glasses with side-shields.

Hand protection

Protective gloves, resistant to hydrocarbons. The manufacturer recommends the following glove materials: nitrile rubber or fluorinated rubber. Penetration time of the glove material: No data is available on the product itself. Safety gloves should be selected for the actual conditions of use and in accordance with the instructions for use provided by the manufacturer. Please note that the daily use of a chemical glove in practice may be considerably shorter than the permeation time calculated in EN 374 as a result of many different factors (for example temperature).

Use tested protective gloves. Protective gloves should be replaced immediately if damaged or in case of signs of wear.

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Skin protection

Wear suitable protective clothing. (long sleeved clothing, safety shoes or boots) Remove and wash contaminated clothing before re-use.

No rings, watches or similar things should be worn. Product residues can remain and, therefore, can trigger skin reactions.

Respiratory protection

Not required when area is well ventilated. When the concentration in the air is over the maximum occupational exposure limit, an approved respiratory protection apparatus must be worn. Respirator with combination filter for vapour/particulate. (EN 14387) Respirator with A/P1 filter.

Environmental exposure controls

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Avoid subsoil penetration.

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

Physical state:	liquid
Colour:	yellow - clear, amber colour
Odour:	characteristic

Test method

pH-Value:	n.a.
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Changes in the physical state

Melting point:	No data available.
Initial boiling point and boiling range:	No data available.
Freezing point temperature:	No data available.
Flash point:	> 200 °C COC
Sustaining combustion:	No data available

Flammability

Solid:	No data available.
Gas:	No data available.

Explosive properties

The product is not explosive.

Lower explosion limits:	No data available.
Upper explosion limits:	No data available.
Ignition temperature:	No data available.

Auto-ignition temperature

see below

Decomposition temperature:	No data available.
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Oxidizing properties

not applicable

Vapour pressure:	No data available.
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Density (at 15 °C):	0.85 g/cm ³
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Water solubility:	insoluble
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Solubility in other solvents

miscible with most organic solvents

Partition coefficient:	No data available.
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Viscosity / kinematic:	67 - 69 (40°C); 11.8 (100°C) mm ² /s ISO 3104
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Vapour density:	No data available.
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Evaporation rate: No data available.

9.2. Other information

Solid content: No data available.

Autoignition temperature: > 250 °C

Odour threshold value: No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under proper storage and handling.

10.3. Possibility of hazardous reactions

No dangerous reactions occur under normal storage conditions and in normal use.

10.4. Conditions to avoid

Keep away from heat and sources of ignition. Avoid temperatures over the ignition temperature and flash point. Avoid sparks and static charges.

10.5. Incompatible materials

Avoid contact with strong oxidising agents.

10.6. Hazardous decomposition products

To avoid thermal decomposition, do not overheat. See also section 5 and 11.

Further information

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available.

Acute toxicity

No data is available on the product itself.

Base oil – not specified:

LD50/oral/rat: > 5000 mg/kg bw - OECD 420

LD50/dermal/rabbit: > 5000 mg/kg bw - OECD 402

LC50/inhalative/4h/rat: > 5 mg/l (aerosol) - OECD 403

Phenol, dodecyl-, branched:

LD50/oral/rat: 2700 mg/kg

LD50/dermal/rat: > 3160 mg/kg

Diphenylamine:

LD50/oral/rat: 600 mg/kg (male)



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CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
122-39-4	Diphenylamine					
	oral	ATE	100 mg/kg			
	dermal	ATE	300 mg/kg			
	inhalative vapour	ATE	3 mg/l			
	inhalative aerosol	ATE	0.5 mg/l			

Irritation and corrosivity

Inhalation:

Large concentrations of vapour or oil mist can be irritating to the mucous membranes and respiratory tract.

Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Sensitising effects

No data available.

STOT-single exposure

No data available.

Severe effects after repeated or prolonged exposure

No data available.

Carcinogenic/mutagenic/toxic effects for reproduction

Repeated and prolonged exposure of used engine oils has triggered skin cancer on mice. Although unused motor oil is not considered toxic, used motor oil can be carcinogenic, and therefore, should be handled with care. Wash hands before breaks and immediately after handling the product. Wash contaminated skin areas thoroughly with soap and water.

Reproduction toxicity:

Phenol, dodecyl-, branched: May impair fertility.

Aspiration hazard

No data available.

Practical experience

Other observations

Repeated or long term contact can lead to skin irritations. Characteristic skin damage (pustules) can develop after continued and repeated exposure (contact with contaminated clothing).

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

No data is available on the product itself. The information is based on tests done on similar products and/or product components.

Aquatic toxicity:

CAS 64742-54-7 Base oil – not specified:

Toxicity to algae:

EL50/48h/algae - *Pseudokirchneriella subcapitata*: > 100 mg/l (OECD 201)

Daphnia toxicity:

EL50/48h/Daphnia magna: > 10000 mg/l (OECD 202)

Toxicity to fish:

LL50/96h/Rainbow trout (*Oncorhynchus mykiss*): > 100 mg/l (OECD 203)



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CAS 121158-58-5 Phenol, dodecyl-, branched:

Toxicity to algae:

EbC50/72h/Scenedesmus subspicatus: 0.15 mg/l (OECD 201)

Daphnia toxicity:

EC50/48h/Daphnia magna, static: 0.037 mg/l (OECD 202)

Toxicity to fish:

EL50/96h/Pimephales promelas, semi-static: 40 mg/l (OECD 203)

CAS 122-39-4 Diphenylamine:

Toxicity to algae:

EC50/72h/algae: 1.51 mg/l

Daphnia toxicity:

EC50/48h/Cladocère: 0.31 mg/l

Toxicity to fish:

LC50/48h/Fish: 2.2 mg/l

Toxicity to bacteria:

EC50: 4.77 mg/l (30 min)

EC50: 2.81 mg/l (5 min)

EC50: 3.46 mg/l (15 min)

Chronic toxicity:

CAS 64742-54-7 Base oil – not specified:

Daphnia toxicity:

NOEL/21d/Daphnia magna: 10 mg/l (QSAR Petrotox)

Toxicity to fish:

NOEL/14/28d/Rainbow trout (Oncorhynchus mykiss): > 1000 mg/l (QSAR Petrotox)

CAS 121158-58-5 Phenol, dodecyl-, branched:

Daphnia toxicity:

NOEC/Daphnia magna, semi-static: 0.0037 mg/l (OECD 211)

12.2. Persistence and degradability

Mineral oil: The product is difficult to biodegrade.

12.3. Bioaccumulative potential

Partition coefficient (n-octanol/water):

CAS 121158-58-5 Phenol, dodecyl-, branched: logPow: 7.14

CAS 122-39-4 Diphenylamine: logPow: 3.4

12.4. Mobility in soil

Mobility in the ground is low.

Evaporates into the air. (small amounts)

Insoluble in water. The product floats on (waste) water.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

Further information

Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods



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Advice on disposal

Disposal in accordance with the official regulations. Do not empty into drains. Should not be released into the environment. Offer surplus and non-recyclable solutions to a licensed disposal company. Where possible recycling is preferred to disposal or incineration.

Waste disposal number of waste from residues/unused products

130205 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils
Classified as hazardous waste.

Waste disposal number of used product

130205 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Disposal in accordance with the official regulations. Packaging can be sent for recycling after being emptied and cleaned. Dispose of non-cleansing packaging in the same way as the product. Emptied containers can contain residues of product. Empty containers can contain flammable and explosive vapours. Keep product and empty container away from heat and sources of ignition. See also section 7.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: not regulated
14.2. UN proper shipping name: not regulated
14.3. Transport hazard class(es): not regulated
14.4. Packing group: not regulated

Other applicable information (land transport)

Not classified as dangerous regarding transport regulations.

Inland waterways transport (ADN)

14.1. UN number: not regulated
14.2. UN proper shipping name: not regulated
14.3. Transport hazard class(es): not regulated
14.4. Packing group: not regulated

Other applicable information (inland waterways transport)

Not classified as dangerous regarding transport regulations.

Marine transport (IMDG)

14.1. UN number: not regulated
14.2. UN proper shipping name: not regulated
14.3. Transport hazard class(es): not regulated
14.4. Packing group: n.d.a.

Other applicable information (marine transport)

Not classified as dangerous regarding transport regulations.



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Air transport (ICAO)

14.1. UN number: not restricted

14.2. UN proper shipping name: not restricted

14.3. Transport hazard class(es): not restricted

14.4. Packing group: n.d.a.

Other applicable information (air transport)

Not classified as dangerous regarding transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not classified as dangerous regarding transport regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Additional information

No Substances of Very High Concern (SVHC) according REACH Article 57.

National regulatory information

Additional information

The national regulations have to be complied with as necessary.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

Section: 1 - 16

Abbreviations and acronyms

n.a. = not applicable

n.d. = not determined

n.d.a. = no data available

ATE = Acute Toxicity Estimate

NOEC = No-Observed-Effect-Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

VOC = Volatile organic compounds

SVHC = substance of very high concern

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

GHS = Globally Harmonized System

CLP = Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

Relevant R phrases (number and full text)

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

33 Danger of cumulative effects.

36/38 Irritating to eyes and skin.

50 Very toxic to aquatic organisms.



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- | | |
|-------|---|
| 52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 53 | May cause long-term adverse effects in the aquatic environment. |
| 62 | Possible risk of impaired fertility. |

Relevant H and EUH statements (number and full text)

- | | |
|-------|--|
| H301 | Toxic if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H361f | Suspected of damaging fertility. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The product is to be used exclusively for the applications named in the technical data sheet or in the processing instructions.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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