



MATERIAL SAFETY DATA SHEET

WOIL SLIDING OIL 220



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Page No: 1 / 12

This Safety Data Sheet is "Regulation on Safety Data Sheets for Hazardous Substances and Mixtures" (Official Journal dated 13.12.2014 and numbered 29204) and "Regulation on Classification, Labeling and Packaging of Substances and Mixtures" Prepared in accordance with (Official Journal No. 28848 and 11.12.2013).

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product name WOIL SLIDING 220

1.2 Relevant identified uses of the substances or mixture uses

Supplier Industrial Use

1.3 Details of the supplier of the safety sheet

Supplier

Name ÖZERŞAH ENERJİ VE PETROL ÜRÜNLERİ TİCARET VE SANAYİ LİMİTED ŞİRKETİ

Address Gebkim Kimyacılar Osb. Atatürk Bulv. No:4/a Dilovası / KOCAELİ

Telephone 0262 502 01 99

Fax 0262 502 01 97

Web www.woil.com.tr

e-mail ozersahenerji@gmail.com

Related person Fetullah ARVAS

1.4. Emergency telephone number

ÖZERŞAH ENERJİ VE PET. ÜRÜN. TİC. VE SAN. LTD. ŞTİ. : 0262 502 01 99

National Poison Information Center (UZEM) : 114

Emergency Health services : 112

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (28848 T.C.)

Physical Harm Not classified as harmful.

Human Health Not classified as harmful.

Environments Not classified as harmful

2.2 Label elements

Labeling (28848 T.C.)

Labeling is not required. Not classified as harmful.

Hazard pictograms Not classified as harmful.

Warning statements Not available.

Hazard statements Not classified as harmful.

Precautionary statements Not classified as harmful

Additional Information May cause allergic reaction as it contains PHOSPHORIC ACID ESTERS and AMIN SALT

2.3 Other Hazards

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Physical / Chemical Damages

There are no obvious dangers.

Health Hazards

High pressure injection under the skin can cause severe irritation. In case of excessive exposure; may irritate eyes, skin or respiratory system.

Environmental Damages

There are no obvious dangers. The product does not contain any substances classified as PBT or vPvB.

3.COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

This material is not applied because it is arranged as a mixture.

3.2 Mixture

Substance name	Cas No	EC No	Concentration %	Classification
2,6-DI-REVERSE-BUTYL-P-CRESOL	128-37-0	204-881-4	<0.25 %	Aquatic Acute 1- H400 (M factor 1), Aquatic Chronic 1- H410 (M factor 1)
Z)-OCTADEC-9-ENILAMINE, C16-18-(EVEN,SATURATE AND UNSATURATED)-ALKYLAMINES	1213789-63-9	627-034-4	0.025 - < 0.1%	Acute Tox. 4- H302, Asp. Full. 1- H304, STOT SE. 3- H335, STOT Again. Mrs. 2- H373, Skin Acid. 1B H314, Aquatic Acute 1- H400 (M factor 10), Aquatic Chronic 1- H410 (M factor 10)
Reaction Products 4-METHYL-2 PENTHANOL AND DIPHOSPHORUS PENTASULPHIDE, PROPOXYLAT, esterified with DIPHOSPHORUS	91745-46-9	931-384-6	0.1 - < 1%	[Flame. Liquid. 4- H227], Acute Tok. 4- H302, Skin Sensitive. 1- H317, [Aquatic Acute 2- H401], Aquatic Chronic 2- H411 Eye Injury. 1- H318

Note: Any classification in brackets CLP regulation (No. 1272/2008) is a GHS configuration block that has not been adopted by the EU and is therefore not applicable in EU or non-EU countries where the CLP regulation applies and is shown for informational purposes only.

Note: The full text for all Hazard statements is given in Section 16.

4. FIRST AID MEASURES

4.1 First aid organization

4.1 Description of first aid measures

Breathing

No more exposure. Avoid exposure to yourself or others. Provide adequate respiratory protection. If respiratory tract irritation, dizziness, nausea or unconsciousness occurs, seek medical attention

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immediately. If breathing has stopped, assist respiration with a mechanical device or give artificial respiration.

Swallowing

Normally first aid is not required. In case of discomfort, seek medical help.

Skin Contact

Wash contact areas with soap and water. If the product has been injected intradermally or subcutaneously, or anywhere on the body, the person concerned should be evaluated by a physician immediately as an emergency surgical intervention, regardless of the appearance or size of the wound. Although initial symptoms due to high-pressure injection are minimal, early medical intervention within the first few hours can significantly reduce the extent of the injury.

Eye contact

Wash thoroughly with plenty of water. If irritation occurs seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Local necrosis has been demonstrated by a delay in the onset of pain and tissue damage within a few hours following injection.

4.3 Early sign for medical intervention and treatment

It is not expected to have a special medical device for emergency and special medical procedures in the workplace.

5. FIRE FIGHTING MEASURES

5.1 Fire Extinguishers

Suitable Fire Extinguishers

To extinguish the fire; use water mist, foam, dry chemicals or carbon dioxide (CO₂).

Unsuitable extinguishing agents

Do not intervene directly with water.

5.2 Special damages caused by the product

Harmful Combustion Products: Aldehydes, Unwanted combustion products, Carbon oxides, Smoke, Steam, Sulfur oxides

5.3 Protective equipment for fire fighters

Fire Fighting Instructions: Evacuate area. Prevent the fire from spreading out of control or entering streams, sewers and drinking water networks. firefighters; should use standard protective equipment and fire breathing apparatus in closed areas. Spray water to cool burning surfaces and protect personnel.

FLAMMABLE PROPERTIES

Flash Point [Method]: >205°C (401°F) [ASTM D-92]

Lower/upper flammability limits (approximate volume percent in air): UEL: 7.0 %V LEL: 0.9 %V [Predicted]

Auto-Ignition Temperature: No data

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Protective Measures

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Avoid contact with spilled material. See Section 5 for firefighting information. For hazards, see the "Hazards Identification" section. See Chapter 4 for First Aid Advice. See Section 8 for Recommendations on Minimum Personal Protective Equipment. Additional protective measures may be necessary in some specific situations and/or assessments by emergency responders.

For emergency responders:

Respiratory protection: Respiratory protection will only be required in special circumstances, eg the formation of mists. Depending on the size of the spill and the potential level for exposure, a half face or full face respirator with dust/organic vapor filter(s) may be used. If the exposure cannot be fully identified or an oxygen-deficient atmosphere is possible or expected, the use of Self-Breathing Apparatus (SCBA) is recommended. It is recommended to use work gloves resistant to hydrocarbons. Gloves made of poly vinyl acetate (PVA) are water resistant and not suitable for use in an emergency. It is recommended to use chemical resistant goggles in cases where splashes or eye contact may occur. For small spills: It is generally sufficient to wear normal anti-static work clothes. In case of large spills: It is recommended to wear clothes made of chemical resistant, anti-static material that covers the body completely.

6.2 Environmental Precautions

Large Spillages: Set a barrier away from the spill for later recovery and disposal. Prevent from entering waterways, sewers, basements or closed areas.

6.3 Collection and Cleaning Processes

Spill to Ground: Stop the leak if it is not at any risk to you. Recover by pumping or with the help of a suitable absorbent material.

Spill in Water: If there is no risk to you, stop the leak. Immediately surround the spill/spill with a barrier (flow barrier). Warn other ships. Clean it from the surface with suitable absorbent materials or by scraping. Before using dispersant substances, ask a specialist for advice. Recommendations for water spills and spills are based on the most likely spill scenario for this substance; however, geographical conditions, wind, temperature, (and in the case of a spill) wave and current direction and speed can greatly affect the appropriate action to be taken. Therefore, local experts should be consulted.

Note: Local regulations may specify or limit the measures to be taken.

6.4 References to Other Sections

See chapters 8 and 13.

7. HANDLING AND STORAGE

7.1 Conditions for Safe Handling

Prevent minor spills and leaks against the risk of slipping. The material can accumulate static charges that can cause an electric spark (source of ignition). If the item is used in bulk, an electrical spark can ignite flammable vapors found and emitted from liquids or residues (for example, in operations involving switch charging). Use proper bonding and grounding procedures. However, bonding and grounding procedures may not eliminate hazards from static build-up. See local applicable standards for guidelines. Additional references include American Petroleum Institute 2003 (Protection Against Static, Lightning and Stray Current Ignitions) or National Fire Protection Administration 77 (Static Electricity Recommended Practice) or CENELEC CLC/TR 50404 (Electrostatics - Concerning avoiding hazards from static electricity). law) can be counted.

Static Collector: This item is a static collector.

7.2 Conditions for Safe Storage, Including Incompatibilities

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The type of container used to store the material can affect static build-up and distribution. Do not store in open or unlabeled containers. The type of container used to store the material can affect static build-up and distribution. Do not store in open or unlabeled containers. Store away from incompatible materials.

7.3 Specific End Uses

Chapter 1 provides information on identified end uses No industrial or sector specific guidance.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

EXPOSURE CONTROL LIMITS

Exposure limits/standards (Note: Exposure limits should be evaluated for each substance separately. Limit values cannot be added)

Substance name	Format	Limit / Standard		Not	Source
2,6-DI-REVERSE-BUTYL-P-CRESOL	Respirable fraction and vapor	TWA	2 mg/m ³		ACGIH

Working with this product may produce products that exceed exposure limits/standards. In situations where there is a potential for mist/aerosol formation, the following is recommended: 5 mg/m³ - ACGIH TLV (respirable fraction).

Note: Information about recommended monitoring procedures can be obtained from the relevant institution(s) and institute(s): Ministry of Labor and Social Security, General Directorate of Occupational Health and Safety- İSGÜM

8.2 Exposure Controls

8.2.1 Engineering Measures

The level of protection and the types of controls to be performed will often vary depending on potential explosion conditions. Things to consider in control measurements:

There is no need for any special requirements under normal usage conditions and in environments with adequate ventilation.

8.2.2 Personal Protective Equipment

Selection of personal protective equipment; The type of applications performed may vary depending on factors such as usage practices, concentration and ventilation. Information on the selection of protective equipment for use with this substance, as described below, is for normal intended use.

Protection of the Respiratory System

If engineering controls do not maintain airborne pollutant concentrations at levels sufficient to protect worker health, the use of an approved respirator may be appropriate. Selection, use and maintenance of the respirator should comply with current regulatory requirements, if any. Respirator types that should be used for this substance are as follows: No special requirements are required under normal use conditions and in environments with adequate ventilation.

For high airborne concentrations, use an approved air-supplied respirator operated in positive pressure mode. Air-fed respirators with purge cans may be required in situations where oxygen levels are insufficient, gas/vapor warning characteristics are poor, or air-purifying filter capacity/power may be exceeded.

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Eye / Face Protection

If contact is required, safety glasses with side shields should be used.

Skin Protection

All information regarding the use of each specific garment is given based on literature publications or data provided by the manufacturer. The types of clothing that should be used for this substance are as follows: Under normal conditions of use, no precautions are necessary to protect the skin. In accordance with good industrial hygiene practices, necessary precautions should be taken to avoid skin contact.

Hand Protection

All specific information on glove use is based on literature publications and glove manufacturers data. Depending on the specific usage conditions, the suitability and permeability time of the glove differ. Contact the glove manufacturer for information on the selection of gloves suitable for the conditions of use and the permeation time. Inspect gloves and replace worn or damaged gloves with new ones. Glove types to be used for this substance are as follows: Under normal conditions of use, no protection is required.

Special Hygiene Measures:

Always ensure that appropriate personal hygiene measures are taken, such as washing hands after handling the substance and before eating, drinking and/or smoking. Clean work clothes and protective equipment from contaminants by washing them regularly. Dispose of oil-contaminated clothing and shoes that cannot be cleaned. Follow the hygiene measures that need to be taken care of at work.

Environmental Controls

Comply with necessary regulations limiting discharge to soil, air and water. Protect the environment by using the necessary control mechanisms to prevent or minimize emissions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Typical physical and chemical properties are for safety, health and environmental requirements. It does not represent all the features of the product. Contact the Supplier listed in Section 1 for additional information.

9.1 Information on Basic Physical and Chemical Properties

Physical Condition:	Liquid
Color:	characteristic
Odor:	No information.
pH:	No information.
Resolution:	No information.
Boiling Point:	No information.
Melting Point:	No information.
DMSO extract (for mineral oil only), IP-346:	< 3 % ağ
Flash point (ASTM D92)	250 °C
Density 15°C (ASTM D4052)	0,890 g/cm ³
Viscosity 40°C (ASTM D445)	198-242 cSt
Viscosity Index (ASTM D 2270)	98

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Pour point (ASTM D 97) -10 °C

10. STABILITY AND REACTIVITY

10.1 Reaction

See subsections.

10.2 Chemical stability

Under normal conditions, the substance is stable.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Excessive heat. High energy sources that can cause ignition.

10.5 Incompatible materials

strong oxidizers

10.6 Hazardous decomposition products

This substance does not decompose at ambient temperature.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxic effects

Hazard Class_x000D_	Conclusion / Notes
Breathing	
Acute toxicity: No endpoint data for material.	Very slightly toxic. Based on the evaluation of the components.
Irritation: No endpoint data for material.	Negligible hazard level at normal operating temperature.
Oral / By mouth	
Acute toxicity: No endpoint data for material.	Very slightly toxic. Based on the evaluation of the components.
Dermal / Through the skin	
Acute toxicity: No endpoint data for material.	Very slightly toxic. Based on the evaluation of the components
Skin Corrosive/Irritation: No endpoint data for material.	Skin irritation at ambient temperature is negligible. Based on the evaluation of the components.
Eyesh	
Serious Eye Damage/Irritation: No endpoint data available for material.	May cause mild, short-lived discomfort to the eyes. Based on the evaluation of the components
Allergic Effect	

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Respiratory Sensitizer: No endpoint data available.	Not expected to be a respiratory sensitizer.
Skin Sensitizer: No endpoint data available.	Not expected to be a skin sensitizer. Based on the evaluation of the components.
Aspiration: Data available.	An aspiration hazard is not expected. Based on the physicochemical properties of the substance.
Germ Cell Mutagenicity: No endpoint data.	It is not expected to be a germ cell mutagen. Based on the evaluation of the components
Carcinogenic effect: No endpoint data available.	It is not expected to cause cancer. Based on the evaluation of the components.
Reproductive Toxicity: No endpoint data available.	Not expected to be toxic to reproduction. Based on the evaluation of the components.
Breastfeeding: No endpoint data available.	It is not expected to harm breastfed infants.
Specific Target Organ Toxicity (STOT)	
Single Exposure: No endpoint data.	Not expected to cause organ damage on a single exposure.
Repeated Exposure: No endpoint data.	Not expected to cause organ damage through prolonged or repeated exposure. Based on the evaluation of the components.

OTHER INFORMATIONS

For the product itself: The ingredient concentrations in this formulation are not expected to cause skin sensitization based on testing of ingredients, this formulation, or the like.

Contains: Heavily refined base oil: Non-carcinogenic in animal studies. Representative substance passes IP-346, Modified Ames Test and/or other screening tests. Skin and respiratory studies showed minimal effects, nonspecific penetration of immune cells, fatty deposits and minimal granuloma formation in the lungs. It did not appear to increase sensitivity in test animals.

12. ECOLOGICAL INFORMATION

The information given is based on data on the material, its components or similar materials through the application of bridge principles.

12.1 Ecotoxicity

Material -- Suspected to be harmful to aquatic organisms

12.2 Persistence and degradability

Biodegradation: Base oil component -- Expected to biodegrade.

12.3 Bioaccumulation potential

Base oil component -- Has potential to bioaccumulate. However, its bioconcentration or biological availability limit may decrease due to its metabolic or physical properties.

12.4 Mobility in soil

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Base oil component -- This substance has a low solubility and floats in water. The substance is expected to migrate from the water to the soil. It is expected to mix with sediment and wastewater solids.

12.5 Results of PBT and vPvB assessment

The product does not contain any substances classified as PBT or vPvB.

12.6 Other adverse effects

Adverse effects not expected to occur.

13. DISPOSAL CONSIDERATIONS

Disposal recommendations are based on the substance as supplied. Disposal should be carried out in accordance with the laws and regulations currently in force and the material properties at the time of disposal.

13.1 Waste treatment methods

The product is suitable for combustion in a closed and controlled burner to take advantage of its fuel value, or for supervised combustion at very high temperatures to prevent the formation of undesirable combustion products. Do not pour waste oil into soil, water, sewer or garbage. Do not mix with any petroleum product or chemical. Do not burn in stoves and boilers. Deliver it free of charge to the nearest waste oil collection point in a clean, robust and tightly closed container. Keep away from children.

Waste Management Regulation No. 29314: 13 02 05*

NOTE: These codes are assigned based on the most common uses of this substance and may not reflect contaminants from actual use. Waste generators need to evaluate the process actually used during the generation of the waste and its pollutants in order to assign the appropriate waste disposal code(s).

This product is in the hazardous waste class according to the Waste Management Regulation.

Empty Container Alert (When Necessary): Empty containers may contain residues and therefore can be dangerous. Do not refill or attempt to clean empty containers without proper instructions. Empty drums should be completely emptied and stored safely without being properly reconstituted or destroyed. Empty containers must be handed over to a qualified or licensed contractor for recycling, recovery or disposal in accordance with government regulations.

NEVER PUT SUCH CONTAINERS UNDER PRESSURE, DO NOT CUT, WELD, COVER WITH BRASS, DO NOT SOLDER, DRILL, GRIND OR INTO HEAT, FLAME, SPARKS, SPARKS, WATER SUPPLY A STATIC ELECTRICITY WATER TANK. BECAUSE THE CONTAINERS CAN EXPLODE AND CAUSE INJURY OR DEATH.

14. TRANSPORT INFORMATION

14.1 UN Number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class (es)

There are no required transport warning signs.

14.4 Packing Group

Not applicable.

14.5 Environmental Hazard

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Environmentally Hazardous Substances/ marine pollutant

No.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MAROL/73/78 and be IBC code

Not applicable

15. REGULATORY INFORMATION

LEGISLATION STATUS AND APPLICABLE LAWS AND REGULATIONS

Listing/notifying on the following chemical stocks are listed or exempt (may contain substance(s) notifiable to the EPA Active TSCA inventory prior to import into the US): AIIIC, DSL, IECSC, KECI, PICCS, TCSI, TSCA

15.1 Specific safety, health and environmental regulations for the substance or mixture

Current EU Directives and Regulations: 1907/2006 [... on Registration, Evaluation, Authorization and Restriction of Chemicals and further amendments] 1272/2008 [on classification, labeling and packaging of mixtures and substances]

Turkish Legislation:

T.R. Ministry of Environment and Urbanization, dated 11 December 2013, numbered 28848. Regulation on Classification, Labeling and Packaging of Substances and Mixtures.

T.R. Ministry of Labor and Social Security, Regulation No. 28733, dated 12 August 2013, on Health and Safety Precautions in Working with Chemical Substances.

T.R. Ministry of Labor and Social Security, Regulation No. 28695, dated July 2, 2013, on the Use of Personal Protective Equipment at Workplaces.

T.R. Ministry of Labor and Social Security, Occupational Health and Safety Law No. 6331, dated 30 June 2012.

T.R. Ministry of Environment and Urbanization, Regulation on Waste Management, dated April 2, 2015, numbered 29314.

T.R. Ministry of Customs and Trade, Regulation No. 30314, dated 27 January 2018, on Detergents and Surfactants Used in Detergents

16. OTHER INFORMATION

16.1 Additional Information

The information on health, safety and environment in the Safety Data Sheet has been given by examining the reliable sources available at the time the form was prepared. While utmost care is taken to ensure the accuracy of the information, there is no guarantee of perfection or accuracy regarding the information contained in this document. The health, safety, and environmental recommendations contained in this document may not be adequate for all individuals and/or situations. It is the responsibility of the users to evaluate the material, to use it safely and to comply with the laws and regulations regarding the issues related to this use. The expressions used in this document shall not be construed as any permission, recommendation or license for the practice and work performed without a valid license. ÖZERŞAH ENERJİ VE PETROL ÜRÜNLERİ TİCARET VE SANAYİ LİMİTED ŞİRKETİ will not be held responsible for any damage and/or injury that may arise from abnormal use of the material, not following the recommendations or from the natural hazards of the material.

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abbreviations

List of abbreviations and abbreviations used (but not required) in this safety data sheet:

N/A Not applicable

N/D Not Determined

WHAT Not Defined

VOC Volatile Organic Compound AICC Australian industrial chemical inventory

AIHA WEEL American Society of Industrial Hygiene Workplace Environmental Exposure Limits

ASTM ASTM International, originally known as the American Society for Testing and Materials (ASTM)

DSL Native Substance List (Canada)

EINECS European Inventory of Existing Trade Items

ELINCS European List of Approved Chemicals

ENCS Existing and new Chemicals (Japanese inventory)

IECSC China Existing Chemical Substances Inventory

KECI Korea Existing Chemical Substances Inventory

NDSL Non-Native Substances List (Canada)

NZIoC New Zealand Chemical Substances Inventory

PICCS Philippine Chemical Agents and Chemicals Inventory

TLV Threshold Breakpoint (American Conference on Government Industrial Hygienists)

TSCA Toxic Substances Control Act (U.S. Inventory)

UVCB Substances of Unknown or Variable composition, Complex reaction products and Biological materials

LC Lethal Concentration

LD Lethal Dose

LL Lethal Loading

EC Effective Concentration

EL Effective Loading

NOEC Observable Effect Concentration not available

NOELR No Observable Impact Loading Rate

Key Information Resources

Sources of information used during the preparation of this material safety data sheet: toxicology studies obtained from the supplier or our own laboratory, Concave Product Dossiers, publications of other trade associations (EU hydrocarbon solvents REACH consortium, EU IUCLID database etc.) and other sources as appropriate

Hazard Statements

KEY TO H-CODES FOUND IN SECTIONS 2 AND 3 OF THIS DOCUMENT (for informational purposes only)



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[Flame. Liquid. 4 H227]: Explosive liquid; Flammable Liquid, Cat 4

Acute Tox. 4- H302: Harmful if swallowed; Acute Toxic Oral, Cat 4

Asp. Tox. 1 H304: May be fatal if swallowed and escapes into airlines; Aspiration, Level 1

Skin Corr. 1B H314: Causes severe skin burns and eye damage; Skin Corrosive/Irritant, Cat 1

Skin Sensitive. 1 H317: May cause an allergic skin reaction; Skin Sensitizer, Cat 1

Eye Damage.1 H318: Causes serious eye damage; Serious Eye Damage/Irritant, Cat 1

STOT 3 H335: May cause respiratory irritation; Target Organ Single, Respiratory Irritant

STOT Again. Mrz 2 H373: May cause damage to organs through prolonged or repeated exposure; Target Organ, Repetitive, Cat 2

Aquatic Acute 1- H400: Very toxic to aquatic life; Acute Environmental Tox, Cat 1

[Aquatic Acute 2 H401]: Toxic to aquatic life; Acute Environmental Tox, Category 2

Aquatic Chronic 1 H410: Very toxic to aquatic life with long lasting effects; Chronic Environmental Tox, Cat 1

Aquatic Chronic 2 H411: Toxic to aquatic life with long lasting effects; Chronic Environmental Tox, Cat 2

16.2 Prepared by

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Document no : TÜV / 01.230.05

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