



Eni Rotra HD WB

Material number 4657

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 2.12.2024
Version: 3.1
Replaces version: 3.0
Language: en-DE
Date of print: 4.12.2024

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

1.1 Product identifier

Trade name: Eni Rotra HD WB

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

General use: Transmission oil

1.3 Details of the supplier of the safety data sheet

Company name: Enilive Schmiertechnik GmbH

Street/POB-No.: Paradiesstraße 14

Postal Code, city: 97080 Würzburg

Germany

E-mail: info.wuerzburg@enilive.com

Telephone: +49 (0)931-90098-0

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Department responsible for information:

Application Engineering & Product Management (AEPM)

Telephone: +49 (0)931-90098-0

E-mail: technik.wuerzburg@enilive.com

1.4 Emergency telephone number

GIZ-Nord, Göttingen

Telephone: +49 (0)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

2.2 Label elements

Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

Special labelling

EUH208 Contains Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50. May produce an allergic reaction.

EUH210 Safety data sheet available on request.



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2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher. The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: A mixture of hydrocarbons and additives.

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119484627-25-xxxx EC No. 265-157-1 CAS 64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic Asp. Tox. 1; H304.	25 - 50 %
REACH 01-2119493635-27-xxxx EC No. 224-235-5 CAS 4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) Eye Dam. 1; H318. Aquatic Chronic 2; H411. Specific concentration limits (SCL): Eye Dam.1; H318: C ≥ 50 %	< 2,5 %
REACH 01-2119487077-29-xxxx EC No. 265-158-7 CAS 64742-55-8	Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1; H304.	0,1 - 2,5 %
EC No. 271-877-7 CAS 68610-84-4	Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 Skin Sens. 1; H317. Aquatic Chronic 4; H413.	< 1 %

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

Additional information:

Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):

The eye irritation hazard is based on an evaluation of the data for similar products. These data show that a specific component present in this product antagonizes (or decreases the severity of) the eye irritation of the ZnDTP.

Contains: White mineral oil (petroleum), light. The maximum workplace exposure limits are, where necessary, listed in section 8.

The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.



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SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	Take off contaminated clothing and wash it before reuse.
In case of inhalation:	Remove casualty to fresh air and keep warm and at rest. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. If unconscious place in recovery position and seek medical advice.
Following skin contact:	After contact with skin, wash immediately with soap and plenty of water. In case of skin reactions, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.
After swallowing:	Rinse mouth. Do not induce vomiting. Danger of aspiration! Never give anything by mouth to an unconscious person. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause allergic reactions in already sensitized persons.

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:

Water spray jet, foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

5.2 Special hazards arising from the substance or mixture

Combustible.

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: Carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Cool exposed containers with water spray, but avoid contact of the substance with water. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe mist/vapours/spray. Provide adequate ventilation. Remove all sources of ignition. Wear appropriate protective equipment.

Take off contaminated clothing and wash it before reuse. Avoid contact with skin, eyes, and clothing. Keep unprotected people away.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. 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) and place in closed containers for disposal.

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

Never return spills in original containers for re-use.

Clean contaminated articles and floor according to the environmental legislation.

Additional information: Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe mist/vapours/spray. Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Take off contaminated clothing and wash it before reuse. Avoid contact with skin, eyes, and clothing. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from heat.

When handling larger quantities, take precautionary measures against electrostatic charging.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Store only in original container.

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

Protect from heat and direct sunlight.

Recommended storage temperature: 0 - 40 °C.

Hints on joint storage: Do not store together with: Strong oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

Storage class: 10 = Combustible liquids that cannot be assigned to any of the above storage classes

7.3 Specific end use(s)

No information available.

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SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	Germany: DFG Kurzzeit	0,4 mg/m ³ (compounds, inorganic; respirable fraction)
		Germany: DFG Kurzzeit	4 mg/m ³ (compounds, inorganic; inhalable fraction)
		Germany: DFG Langzeit	0,1 mg/m ³ (compounds, inorganic; respirable fraction)
		Germany: DFG Langzeit	2 mg/m ³ (compounds, inorganic; inhalable fraction)
92062-35-6	White mineral oil (petroleum), light	Germany: TRGS 900 Kurzzeit	20 mg/m ³ (Aerosol and vapour)
		Germany: TRGS 900 Langzeit	5 mg/m ³ (Aerosol and vapour)

DNEL/DMEL:

Information about Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7):

DNEL, workers, inhalative, systemic, long-term: 2,73 mg/m³DNEL, workers, inhalative, local, long-term: 5,58 mg/m³

DNEL, workers, dermal, systemic, long-term: 0,97 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 0,74 mg/kg bw/d

Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8):

DNEL, workers, inhalative, systemic, long-term: 6,6 mg/m³

DNEL, workers, dermal, systemic, long-term: 9,6 mg/kg bw/d

DNEL, consumers, inhalative, systemic, long-term: 1,67 mg/m³

DNEL, consumers, dermal, systemic, long-term: 4,8 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 0,19 mg/kg bw/d

Information about Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8):

DNEL, workers, inhalative, systemic, long-term: 2,73 mg/m³DNEL, workers, inhalative, local, long-term: 5,58 mg/m³

DNEL, workers, dermal, systemic, long-term: 0,97 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 0,74 mg/kg bw/d



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PNEC: Information about Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7):
PNEC, Secondary Poisoning: 9,33 mg/kg Food
Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8):
PNEC, water (freshwater): 4 µg/L
PNEC, water (freshwater, intermittent release): 44 µg/L
PNEC, water (marine water): 4,6 µg/L
PNEC, sewage treatment plant: 3,8 mg/L
PNEC, sediment (freshwater): 0,322 mg/kg dw
PNEC, sediment (marine water): 0,032 mg/kg dw
PNEC, soil: 0,062 mg/kg dw
PNEC, Secondary Poisoning: 8,33 mg/kg Food
Information about Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8):
PNEC, Secondary Poisoning: 9,33 mg/kg Food

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection: In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the WEL levels have been exceeded.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Protective gloves according to DIN EN ISO 374:1.
Glove material: nitrile rubber (NBR)
Breakthrough time: > 480 min
Layer thickness: ≥ 0,35 mm
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1:2022.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Do not breathe mist/vapours/spray.
Take off contaminated clothing and wash it before reuse. Avoid contact with skin, eyes, and clothing.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling. Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa liquid
Colour: brown
 clear



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Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	Non-flammable
Upper/lower flammability or explosive limits:	LEL (Lower Explosion Limit): No data available UEL (Upper Explosive Limit): No data available
Flash point/flash point range:	232 °C (ASTM D 92)
Decomposition temperature:	No data available
pH:	No data available
Viscosity, kinematic:	at 40 °C: 37,4 mm ² /s (ASTM D 7042)
Water solubility:	Immiscible
Partition coefficient: n-octanol/water:	3,6 log K(o/w) (Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8)) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. < 1 log K(o/w) (Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Vapour pressure:	No data available
Density:	at 15 °C: 0,852 g/mL (ASTM D 4052)
Vapour density:	No data available
Particle characteristics:	Not applicable
9.2 Other information	
Explosive properties:	Product is not explosive.
Oxidizing characteristics:	Product has no oxidizing effect.
Auto-ignition temperature:	No data available
Evaporation rate:	Negligible (Butyl acetate = 1)
Additional information:	Pour point: -42 °C (ASTM D 97)

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.
Protect from direct sunlight.



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10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

SECTION 11: Toxicological information

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

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

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

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

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

Contains Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50. May produce an allergic reaction.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

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

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

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

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



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11.2 Information on other hazards

Endocrine disrupting properties:

None

Other information:

Information about Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7):

LD50 Rat, oral: > 5.000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 2.000 mg/kg (OECD 402)

LC50 Rat, inhalative (dusts/mist): > 5,53 mg/L/4 h (OECD 403)

Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8):

LD50 Rat, oral: 3.100 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 5.000 mg/kg (OECD 402)

Information about Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8):

LD50 Rat, oral: > 5.000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 2.000 mg/kg (OECD 402)

LC50 Rat, inhalative (dusts/mist): > 5,53 mg/L/4 h (OECD 403)

Symptoms

In case of ingestion: Vomiting, nausea, diarrhoea.

After contact with skin: Redness, irritation.

Prolonged skin contact may degrease the skin and may produce dermatitis.

May cause allergic reactions in already sensitized persons.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Information about Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7):

Fish toxicity:

LC50 Pimephales promelas (fathead minnow): > 100 mg/L/96 h (OECD 203)

NOEC Oncorhynchus mykiss: >=1.000 mg/L / 14/28 d (QSAR Petrotox)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 10.000 mg/L/48 h (OECD 202)

EC50 Gammarus pulex: > 10.000 mg/L/48 h (OECD 202)

NOEC Daphnia magna (Big water flea): 10 mg/L/21 d (OECD 211)

Algae toxicity:

NOEC Pseudokirchneriella subcapitata (green algae): >=100 mg/L/72 h (OECD 201)

Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8):

Fish toxicity:

LC50 Oncorhynchus mykiss: 4,4 mg/L/96 h (OECD 203)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 75 mg/L/48 h (OECD 202)

Algae toxicity:

ErC50 Desmodesmus subspicatus (green algae): > 240 mg/L/72 h

Water Hazard Class:

2 = obviously hazardous to water (Self-classification (mixture).)



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12.2 Persistence and degradability

Further details: Biodegradation:
Information about Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7):
31%/28 d (OECD 301F).
Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8):
5%/28 d.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
3,6 log K(o/w) (Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8))
Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
< 1 log K(o/w) (Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8))
Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

12.6 Endocrine disrupting properties

None

12.7 Other adverse effects

General information: Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 13 02 05* = Mineral-based non-chlorinated engine, gear and lubricating oils
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.

Package

Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:
not applicable



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14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:

Not restricted

14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

14.5 Environmental hazards

Dangerous for the environment:

Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG:

no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

National regulations - Germany

Storage class: 10 = Combustible liquids that cannot be assigned to any of the above storage classes

Water Hazard Class: 2 = obviously hazardous to water (Self-classification (mixture).)

Technical guidance air: 5.2.5

Information on working limitations:

Observe employment restrictions for young people.

Further regulations, limitations and legal requirements:

No data available

National regulations - EC member states

Labelling of packaging with <= 125mL content

Hazard statements: EUH208 Contains Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Precautionary statements: not applicable

Further regulations, limitations and legal requirements:

No data available



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15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H304 = May be fatal if swallowed and enters airways.

H317 = May cause an allergic skin reaction.

H318 = Causes serious eye damage.

H411 = Toxic to aquatic life with long lasting effects.

H413 = May cause long lasting harmful effects to aquatic life.

EUH208 = Contains Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50. May produce an allergic reaction.

EUH210 = Safety data sheet available on request.

Reason of change: Changes in section 3: Composition / Information on ingredients
Changes in section 8: Control parameters
Changes in section 9: Physical and chemical properties
Changes in section 15: Regulatory information
General revision

Date of first version: 21.5.2021

Department issuing data sheet: see section 1: Department responsible for information



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Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
Aquatic Chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
Asp. Tox.: Aspiration toxicity
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EC50: Effective Concentration 50%
EN: European Standard
EQ: Excepted quantities
EU: European Union
Eye Dam.: Eye damage
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
LC50: Median lethal concentration
LD50: Lethal dose 50%
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Sens.: Skin sensitisation
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at:
<http://sumdat.net/492uw0sx>

