Nordlub Kühlerschutz PSA

Article number 08005

NORDLUB Deutschland GmbH

21614 Buxtehude

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

Product identifier

Nordlub Kühlerschutz PSA Article number: 08005 UFI: DRQN-C4UN-Q20T-491T

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

1.2.1 Relevant uses

Cooling fluid

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company NORDLUB Deutschland GmbH

Lange Str. 49

21614 Buxtehude / GERMANY Phone +49 (0)4161 / 55 905 - 0 Fax +49 (0)4161 / 55 905 -29 Homepage www.nordlub.de E-mail info@nordlub.de

Address enquiries to

Technical information info@nordlub.de

Safety Data Sheet sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Acute Tox. 4: H302 Harmful if swallowed.

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Signal word

Contains:

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms

Hazard statements



WARNING

Ethylene glycol

3,5,5-Trimethylhexanoic acid H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

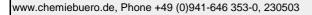
Precautionary statements P260 Do not breathe vapours / spray.

P264 Wash hands thoroughly after handling.

P270 Do no eat, drink or smoke when using this product. P314 Get medical advice / attention if you feel unwell.

P501 Dispose of contents/container in accordance with local/national regulation.





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2.3 Other hazards

Human health dangers The substance/mixture 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% or higher.

Environmental hazards This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels

of 0.1% or higher.

The substance/mixture 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% or higher.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
< 100	Ethylene glycol
	CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1
	GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373
< 3	3,5,5-Trimethylhexanoic acid
	CAS: 3302-10-1, EINECS/ELINCS: 221-975-0
	GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319
< 0,5	1H-Benzotriazole
	CAS: 95-14-7, EINECS/ELINCS: 202-394-1
	GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319 - Aquatic Chronic 2: H411
< 0,02	Denatoniumbenzoat
	CAS: 3734-33-6, EINECS/ELINCS: 223-095-2
	GHS/CLP: Acute Tox. 4: H302 H332 - Eye Dam. 1: H318

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Remove affected person from danger area, lay down. In the event of symptoms seek medical treatment.

If unconscious, place in recovery position and get medical attention immediately.

Inhalation Ensure supply of fresh air.

Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.

If breathing is irregular or stopped, administer artificial respiration.

Consult a doctor immediately.

Skin contact In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion Do not induce vomiting.

Rinse out mouth and give plenty of water to drink. IF you feel unwell: Immediately call a POISON CENTER.

Keep airways free.

In case of spontaneous vomiting, keep the head below the hips to prevent aspiration.

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Most important symptoms and effects, both acute and delayed

By inhalation: Cough Headache If swallowed: Irritant effects Malaise

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Alcohol-resistant foam.

Dry powder. Carbon dioxide. Water mist.

Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not

be used

Full water jet

Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon monoxide (CO) Carbon dioxide (CO2)

Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains. Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear suitable protective equipment. For personal protection see SECTION 8.

Use breathing apparatus if exposed to vapours/aerosol. High risk of slipping due to leakage/spillage of product.

Keep away from all sources of ignition.

6.2 **Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance within the regulations (Section 13).

Reference to other sections

See SECTION 7+8+13

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Provide good room ventilation even at ground level (vapours are heavier than air).

Avoid contact with eyes and skin. Use personal protective equipment.

Place the container in an upright position and protect it against falling over.

Open and handle container with care.

The product is combustible.

Do not smoke

Take precautionary measures against static discharges.

Do not eat, drink or smoke when using this product.

Take off contaminated clothing and wash before reuse.

Use barrier skin cream.

Wash hands before breaks and after work.

Cloths contaminated with product should not be kept in trouser pockets.

7.2 Conditions for safe storage, including any incompatibilities

Only use containers that are approved specifically for the substance/product.

Do not store together with food and animal food/diet.

Do not store together with oxidizing agents.

Do not store together with acids.

Keep container tightly closed.

Keep container in a well-ventilated place. Protect from heat/overheating and from sun. Keep in a cool place. Store in a dry place.

torage class (TRGS 510)

Storage class 10 (VCI)

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (DE)

Substance

Ethylene glycol

CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1

Exposure limit: 10 ppm, 26 mg/m3, H, Y, DFG, EU, 11

Factor: 2(I)

1H-Benzotriazole

CAS: 95-14-7, EINECS/ELINCS: 202-394-1

Exposure limit: 5 mg/m³, DFG-MAK Liste (empfohlene Arbeitsplatzgrenzwerte).

Ingredients with occupational exposure limits to be monitored (EU)

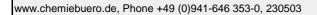
Substance / EC LIMIT VALUES

Ethylene glycol

CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1

Eight hours: 20 ppm, 52 mg/m³, H

Short-term (15-minute): 40 ppm, 104 mg/m³



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8.2 Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation.

Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

Eye protection Not required under normal conditions.

If there is a risk of splashing: safety glasses (EN 166:2001)

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information.

>= 0,11 mm, Nitrile rubber, >480 min (EN 374-1/-2/-3).

 Skin protection
 Protective clothing (EN 340)

 Other
 Do not breathe vapour/spray.

Avoid contact with eyes and skin.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Respiratory protection In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear

appropriate respiratory protection.

Short term: filter apparatus, filter A. (DIN EN 14387)

Thermal hazards not applicable

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

Non-Hole K"Internations DO

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical stateLiquidFormliquidColorblue

OdorNo information available.Odour thresholdNo information available.pH-value7,0 - 9,0 (33-50%, 20°C)pH-value [1%]No information available.

Boiling point [°C] > 170
Flash point [°C] 110

Flammability Combustible

Lower explosion limit 3,2 Vol.% (CAS 107-21-1)
Upper explosion limit 15,3 Vol.% (CAS 107-21-1)

Oxidising properties none

Vapour pressure/gas pressure [kPa] No information available.

Density [g/cm³] 1,12 - 1,16 (20°C)

Relative density No information available.

Bulk density [kg/m³] not applicable

Solubility in water miscible

Solubility other solvents No information available.

Partition coefficient [n-octanol/water] < 2

Kinematic viscosity 3-6 mm²/s (40°C)

Relative vapour density

No information available.

Evaporation speed

No information available.

Melting point [°C] > -30

Auto-ignition temperature [°C] No information available.

Decomposition temperature [°C] No information available.

Particle characteristics not applicable

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents. Reactions with strong acids and alkalies.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from frost.

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10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No decomposition if used and stored according to specifications. In the event of fire: See SECTION 5.

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SECTION 11: Toxicological information

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

Acute oral toxicity

Product

Based on available data, the classification criteria are met.

Substance

1H-Benzotriazole, CAS: 95-14-7

LD50, oral, Human, 500 mg/kg

Denatoniumbenzoat, CAS: 3734-33-6

LD50, oral, Rat, 749 mg/kg bw

Ethylene glycol, CAS: 107-21-1

oral, Human, ca. 100 ml (minimum lethal dose_GESTIS)

LD50, oral, Rat, 5840 mg/kg (Lit.)

LDLo, oral, Human, 786 mg/kg (RTECS)

ATE, oral, 500 mg/kg (Acute Tox. 4)

3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1

LD50, oral, Rat, 1160 mg/kg

Acute dermal toxicity

Product

Based on the available information, the classification criteria are not fulfilled.

Substance

Denatoniumbenzoat, CAS: 3734-33-6

LD50, dermal, Rat, >2000 mg/kg bw

Ethylene glycol, CAS: 107-21-1

LD50, dermal, Rat, 9530 mg/kg (Lit.)

Acute inhalational toxicity

Product

Based on the available information, the classification criteria are not fulfilled.

Substance

Denatoniumbenzoat, CAS: 3734-33-6

LC50, inhalative, Rat, 200 µg/m³ (4h)

Ethylene glycol, CAS: 107-21-1

LC50, inhalative, Rat, 2,5 g/l/6h (Lit.)

3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1

LC0, inhalative, Rat, 30 mg/m³/7h

Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

no adverse effect observed

3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1

irritant

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Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

Guinea pig, no adverse effect observed

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

dermal, no adverse effect observed

3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1

dermal, non-sensitizing

Specific target organ toxicity —

single exposure

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity -

repeated exposure

Ingredients:

CAS 107-21-1: May cause damage to organs through prolonged or repeated exposure (oral,

kidney). Product:

May cause damage to organs through prolonged or repeated exposure.

Calculation method

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

in vitro, negativ

3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1

in vivo, negativ

in vitro, negativ

Reproduction toxicity Based on the available information, the classification criteria are not fulfilled.

Carcinogenicity Based on the available information, the classification criteria are not fulfilled.

Aspiration hazard Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

11.2 Information on other hazards

11.2.1 Endocrine disrupting

properties

The substance/mixture 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% or higher.

11.2.2 Other information none

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SECTION 12: Ecological information

12.1 Toxicity

Substance
Denatoniumbenzoat, CAS: 3734-33-6
LC50, (96h), fish, 100 mg/L
EC50, (72h), Algae, 281,556 mg/L
Ethylene glycol, CAS: 107-21-1
LC50, (96h), fish, 18000 - 46000 mg/l (Lit.)
EC50, (96h), Daphnia magna, > 100 mg/l (Lit.)
IC50, (72h), Algae, > 100 mg/l (Lit.)
NOEC, (72d), Ceriodaphnia dubia, 8590 mg/l (Lit.)
NOEC, (72d), Oncorhynchus mykiss, 15380 mg/l (Lit.)

12.2 Persistence and degradability

Behaviour in environment

compartments

No information available.

Behaviour in sewage plant

No information available.

Biological degradability

CAS 107-21-1: > 90%, 10d (OECD 301 A)

12.3 Bioaccumulative potential

CAS 107-21-1: Log Pow = -1,36

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

The substance/mixture 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% or higher.

12.7 Other adverse effects

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Do not discharge product unmonitored into the environment or into the drainage.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of contents/container in accordance with local/national regulation. Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended) 160114*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with

IMDG

not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to

ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with

IMDG

NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with

IMDG

not applicable

Air transport in accordance with IATA not applicable

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14.4 Packing group

Transport by land according to

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ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with

IMDG

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN) no

Marine transport in accordance with

IMDG

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS 2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014

TRANSPORT-REGULATIONS ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

NATIONAL REGULATIONS (DE): Hazardous Substances Ordinance - GefStoffV 2016; Detergent and Cleaning Agents Act -

WRMG; Federal Water Act - WHG; Technical Rule for Hazardous Substances - TRGS: 200,

220, 615, 900, 905.

- Water hazard class 1, conf. AwSV, 18.04.2017

- Decree for case of interference,

observe limits

not applicable

- Class. according to TA-Luft 5.2.5

Storage class (TRGS 510) Storage class 10 (VCI)

- Observe employment restrictions

for people

Observe employment restrictions for young people.

Observe employment restrictions for mothers-to-be and nursing mothers.

- VOC (2010/75/CE) No information available. TRGS 400: Risk assessment - Other regulations

TRGS 510: Storage of hazardous substances in non-stationary containers

15.2 Chemical safety assessment

No information available.

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SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H318 Causes serious eye damage.

H302+H332 Harmful if swallowed or if inhaled.

H411 Toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H373 May cause damage to organs (Kidney) through prolonged or repeated exposure.

H302 Harmful if swallowed.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par

Route

RID = Règlement concernant le transport international ferroviaire de marchandises

dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par

voie de navigation intérieure ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

IVIS = In vitro irritation score LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading

LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value – time-weighted average TLV®STEL = Threshold limit value – short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

(Calculation method)

Modified position SECTION 2 been added: 3,5,5-Trimethylhexanoic acid

SECTION 3 been added: Denatoniumbenzoat SECTION 3 been added: 1H-Benzotriazole

SECTION 3 been added: 3,5,5-Trimethylhexanoic acid

SECTION 3 deleted: 2-Ethylhexanoic acid SECTION 3 deleted: Methyl-1H-benzotriazole

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