

Safety Data Sheet

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

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

1.1 Product identifier

Trade name: AUTOL PROFİ DK-KAT

UFI: 9N4A-R784-S305-TRDK

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

General use: System cleaner for vehicle fuel units (diesel engines)

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)

Acute Tox. 4; H302

Harmful if swallowed.

Asp. Tox. 1; H304

May be fatal if swallowed and enters airways.

Aquatic Chronic 2; H411

Toxic to aquatic life with long lasting effects.

(EUH066)

Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

Labelling (CLP)



Signal word:

Danger



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Hazard statements:	H302	Harmful if swallowed.
	H304	May be fatal if swallowed and enters airways.
	H411	Toxic to aquatic life with long lasting effects.
	EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary statements:	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P273	Avoid release to the environment.
	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
	P331	Do NOT induce vomiting.
	P391	Collect spillage.
	P405	Store locked up.
	P501	Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains:
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
2-ethylhexyl nitrate

2.3 Other hazards

Special danger of slipping by leaking/spilling product.
Avoid spills and leaks. Very small amounts contaminates drinking water.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

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

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119456620-43-xxxx list no. 926-141-6 CAS 64742-47-8	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics Asp. Tox. 1; H304. (EUH066).	55 - 70 %
REACH 01-2119539586-27-xxxx EC No. 248-363-6 CAS 27247-96-7	2-ethylhexyl nitrate Acute Tox. 4; H302. Acute Tox. 4; H312. Acute Tox. 4; H332. Aquatic Chronic 2; H411. (EUH044). (EUH066).	< 45 %
REACH 01-2119487289-20-xxxx EC No. 203-234-3 CAS 104-76-7	2-Ethylhexan-1-ol Acute Tox. 4; H332. Skin Irrit. 2; H315. Eye Irrit. 2; H319. STOT SE 3; H335.	< 10 %

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



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SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	First aider: Pay attention to self-protection! Never give an unconscious person anything through the mouth.
In case of inhalation:	Move victim to fresh air; if necessary, provide artificial respiration or oxygen. If unconscious place in recovery position and seek medical advice.
Following skin contact:	Wash with generous amount of water and soap. Take off contaminated clothing and wash it before reuse. Seek medical attention if irritation persists.
After eye contact:	In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.
After swallowing:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting. Danger of aspiration! Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed.
May be fatal if swallowed and enters airways.

4.3 Indication of any immediate medical attention and special treatment needed

Due to risk of aspiration gastric lavage may only be applied under endotracheal intubation. Subsequent observance for pneumonia and lung oedema.
It can take hours before symptoms of poisoning show up following exposure.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
Foam, extinguishing powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:
Water

5.2 Special hazards arising from the substance or mixture

Combustible.
May form dangerous gases and vapours in case of fire. Vapours form explosive mixtures with air. The vapours of the product are heavier than air. Beware of reignition.
Furthermore, there may develop: nitrogen oxides (NO_x), 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 endangered containers with water jetspray. Do not allow fire water to penetrate into surface or ground water. If necessary notify appropriate authorities.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Avoid breathing mist/vapours/spray.

Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. Wear appropriate protective equipment.

Keep unprotected people away.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains. If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Larger quantities to be stemmed and pumped into tanks.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Stop leak if safe to do so.

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Take action to prevent static discharges.

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 good ventilation and/or an exhaust system in the work area. Avoid generation of vapours/aerosols. Avoid breathing mist/vapours/spray.

Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. Wear appropriate protective equipment.

When using do not eat, drink or smoke. Wash hands before breaks and after work.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Take action to prevent static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store only in original container. Store container tightly closed in a dry and cool place.

Provide good ventilation.

Provide solvent resistant flooring.

Protect from heat and direct sunlight.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

Do not store together with: Strong oxidizing agents

Storage class: 10 = Combustible liquids, unless storage class 3



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7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
64742-47-8	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Germany: DFG Kurzzeit	20 mg/m ³ (Aerosol, respirable fraction)
		Germany: DFG Langzeit	5 mg/m ³ (Aerosol, respirable fraction)
		Germany: TRGS 900 Kurzzeit	600 mg/m ³ (hydrocarbons, aliphatic, C9-C14)
		Germany: TRGS 900 Langzeit	300 mg/m ³ (hydrocarbons, aliphatic, C9-C14)
104-76-7	2-Ethylhexan-1-ol	Europe: IOELV: TWA	5,4 mg/m ³ ; 1 ppm
		Germany: TRGS 900 Langzeit	5,4 mg/m ³ ; 1 ppm (Aerosol and vapour)

DNEL/DMEL:

Information about 2-ethylhexyl nitrate:

DNEL workers, dermal, long-term, systemic: 1 mg/kg bw/dw

DNEL workers, dermal, long-term, local: 0,044 mg/cm²

DNEL workers, inhalative, long-term, systemic: 0,35 mg/m³

DNEL consumers, dermal, long-term, systemic: 0,52 mg/kg bw/dw

DNEL consumers, dermal, long-term, local: 0,022 mg/cm²

DNEL consumers, oral, long-term, systemic: 0,025 mg/kg bw/dw

DNEL consumers, inhalative, long-term, systemic: 0,087 mg/m³

Information about 2-Ethylhexan-1-ol:

DNEL workers, dermal, long-term, systemic: 23 mg/kg bw/dw

DNEL workers, inhalative, short-term, local: 106,4 mg/m³

DNEL workers, inhalative, long-term, systemic: 53,2 mg/m³

DNEL consumers, dermal, long-term, systemic: 11,4 mg/kg bw/dw

DNEL consumers, oral, long-term, systemic: 1,1 mg/kg bw/dw

DNEL consumers, inhalative, long-term, systemic: 2,3 mg/m³

DNEL consumers, inhalative, short-term, local: 53,2 mg/m³



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PNEC: Information about 2-ethylhexyl nitrate:
PNEC freshwater: 0,8 µg/L
PNEC marine water: 0,08 µg/L
PNEC sediment: 0,00074 mg/kg dw
PNEC soil: 0,00019 mg/kg dw

Information about 2-Ethylhexan-1-ol:
PNEC water (freshwater): 0,017 mg/L
PNEC (marine water): 0,0017 mg/L
PNEC intermittent release: 0,17 mg/L
PNEC sewage treatment plant: 10 mg/L
PNEC sediment (freshwater): 28 mg/kg
PNEC sediment (marine water): 0,028 mg/kg dw
PNEC soil: 0,047 mg/kg dw
PNEC Secondary poisoning: 55 mg/kg food

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area. Avoid generation of vapours/aerosols.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Recommendation: Use filter type A2P2 according to EN 14387.

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

Hand protection: Solvent resistant protective gloves (EN 374).
Glove material: Nitrile rubber, polyvinyl chloride
Breakthrough time: >240 min.
The breakthrough times determined in accordance with EN 374 Part III were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

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

Body protection: Use solvent-resistant protective clothing.

General protection and hygiene measures:
Avoid breathing mist/vapours/spray. Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. Wear appropriate protective equipment. When using do not eat, drink or smoke. Wash hands before breaks and after work.

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: Light yellow



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Odour:	Characteristic
Odour threshold:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flammability:	Not applicable
Upper/lower flammability or explosive limits:	LEL (Lower Explosion Limit): Not determined UEL (Upper Explosive Limit): Not determined
Flash point/flash point range:	63 °C
Decomposition temperature:	No data available
pH:	Not applicable
Viscosity, kinematic:	at 40 °C: 2,55 mm ² /s
Solubility:	Not determined
Water solubility:	Insoluble
Partition coefficient: n-octanol/water:	Not determined
Vapour pressure:	Not determined
Density:	0,872 g/mL
Vapour density:	Not determined
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	Product is not explosive.
Oxidizing characteristics:	Product has no oxidizing effect.
Auto-ignition temperature:	Not determined
Evaporation rate:	Not determined
Additional information:	No data available

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 dangerous reactions with proper and specified storage and handling.

10.4 Conditions to avoid

Vapours can form explosive mixtures with air.

Protect from direct sunlight.

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

10.5 Incompatible materials

Strong oxidizing agents



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10.6 Hazardous decomposition products

No decomposition when used properly.

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): Acute Tox. 4; H302 = Harmful if swallowed.

ATEmix (calculated): < 2.000 mg/kg

Acute toxicity (dermal): Lack of data.

ATEmix (calculated): 2.000 mg/kg < ATE ≤ 5.000 mg/kg

Acute toxicity (inhalative): Lack of data.

ATEmix (calculated): > 20 mg/L

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Asp. Tox. 1; H304 = May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties:

No data available

Other information:

Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics:

LD50 Rat, oral: 15.000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 5.000 (OECD 402)

LC50 Rat, inhalative: > 4.951 mg/m³/4 h (OECD 403 (vapours))

Information about 2-ethylhexyl nitrate:

LD50 Rat, oral: > 10 mL/kg bw

LDLo Rabbit, dermal: > 5 mL/kg bw

Information about 2-Ethylhexan-1-ol:

LD50 Rat, oral: < 2.000 mL/kg bw

LC50 Rat, inhalative: > 6,2 mg/L/4 h

Symptoms

eye irritations, irritation to respiratory tract, headache, cough, dizziness, depression of central nervous system

In case of ingestion:

nausea, vomiting, pulmonary oedema, potential for chemical pneumonitis

After contact with skin: Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	Toxic to aquatic life with long lasting effects. Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics: Fish toxicity: NOELR Oncorhynchus mykiss: 0,17 mg/L/28 d (QSAR) Daphnia toxicity: NOELR Daphnia magna (Big water flea): 1,22 mg/L/21 d (QSAR) Algae toxicity: NOELR Pseudokirchneriella subcapitata (green algae): 1.000 mg/L/72 h (OECD 201) Information about 2-ethylhexyl nitrate: Fish toxicity: LC50 Danio rerio (zebrafish): 1,88 mg/L/96 h Daphnia toxicity: EC50 Daphnia magna (Big water flea): > 12,6 mg/L/48 h Algae toxicity: EC50: > 12,06 mg/L/72 h Information about 2-Ethylhexan-1-ol: Fish toxicity: LC50 Leuciscus idus: 17,1 mg/L/96 h (EC C.1) Daphnia toxicity: EC50 Daphnia magna (Big water flea): 39 mg/L/48 h (EC C.2) Algae toxicity: EC50 Scenedesmus subspicatus: 11,5 mg/L/72 h (EC C.3)
Water Hazard Class:	3 = highly hazardous to water (Self-classification (mixture; calculation rule).)

12.2 Persistence and degradability

Further details:	Separation via oil separator. Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics: Biodegradability: 69%/ 28 d. Product is readily biodegradable. (OECD 301F) Information about 2-ethylhexyl nitrate: Biodegradability: 0%/ 28 d. Product is not readily biodegradable. Chemical oxygen demand (COD): 100%/28 d. Product is readily biodegradable. Dissolved Organic Carbon: > 95%/ 5 d. Product is readily biodegradable. (OECD 302B)
Effects in sewage plants:	Information about 2-ethylhexyl nitrate: EC50 activated sludge: > 300 mg/L/24 h

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):	Information about 2-ethylhexyl nitrate: Bioconcentration factor (BCF): 1.332
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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

General information: Avoid spills and leaks. Very small amounts contaminates drinking water. Do not allow to penetrate into soil, waterbodies or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Recommendation: 13 07 03* other fuels (including mixtures)
14 06 03* other solvents and solvent mixtures
*= Evidence for disposal must be provided.

Dispose of waste according to applicable legislation. Do not allow to enter into ground-water, surface water or drains.

Package

Recommendation: Empty containers may contain flammable product residues. Do not cut, weld, bore, burn or incinerate emptied containers unless they have been cleaned and declared safe. Empty containers should be disposed of in accordance with local regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:
UN 3082

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:
UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(2-ethylhexyl nitrate)

14.3 Transport hazard class(es)

ADR/RID, ADN: Class 9, Code: M6
IMDG: Class 9, Subrisk -
IATA-DGR: Class 9

14.4 Packing group

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





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14.5 Environmental hazards

Dangerous for the environment:

Substance/mixture is environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG: yes

Marine pollutant - ADN: yes

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 90, UN number UN 3082
Hazard label: 9
Special Provisions: 274 335 375 601
Limited quantities: 5 L
EQ: E1
Package - Instructions: P001 IBC03 LP01 R001
Package - Special Provisions: PP1
Special provisions for packing together: MP19
Portable tanks - Instructions: T4
Portable tanks - Special Provisions: TP1 TP29
Tank coding: LGBV
Tunnel restriction code: (-)

Inland waterway craft (ADN)

Hazard label: 9
Special Provisions: 274 335 375 601
Limited quantities: 5 L
EQ: E1
Transport permitted: T
Equipment necessary: PP

Sea transport (IMDG)

EmS: F-A, S-F
Special Provisions: 274 335 969
Limited quantities: 5 L
Excepted quantities: E1
Package - Instructions: P001, LP01
Package - Provisions: PP1
IBC - Instructions: IBC03
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP2, TP29
Stowage and handling: Category A.
Properties and observations: -
Segregation group: none

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Air transport (IATA)

Hazard label:	Miscellaneous & Environmentally hazardous
Excepted Quantity Code:	E1
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft:	Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Cargo Aircraft only:	Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Special Provisions:	A97 A158 A197 A215
Emergency Response Guide-Code (ERG):	9L

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, unless storage class 3
Water Hazard Class:	3 = highly hazardous to water (Self-classification (mixture; calculation rule).)
Incident regulation:	Richtlinie 2012/18/EU (Seveso III): Umweltgefahren: Ziffer 1.3.2 = Code E2, Mengenschwelle 200 000kg / 500 000kg
Technical guidance air:	5.2.5
Information on working limitations:	Observe employment restrictions for young people. Observe employment restrictions for expectant or nursing mothers.
Further regulations, limitations and legal requirements:	The product is not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

National regulations - EC member states**Labelling of packaging with <= 125mL content**

Signal word:	Danger
Hazard statements:	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary statements:	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331 Do NOT induce vomiting. P405 Store locked up. P501 Dispose of contents/container to hazardous or special waste collection point.



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Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive] refer to Germany, 12. BImSchV

Use restriction according to REACH annex XVII, no.: 3

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: E2

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:

H302 = Harmful if swallowed.

H304 = May be fatal if swallowed and enters airways.

H312 = Harmful in contact with skin.

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H332 = Harmful if inhaled.

H335 = May cause respiratory irritation.

H411 = Toxic to aquatic life with long lasting effects.

EUH044 = Risk of explosion if heated under confinement.

EUH066 = Repeated exposure may cause skin dryness or cracking.

Reason of change: Changes in section 1: Details of the supplier of the safety data sheet
General revision

Date of first version: 19.10.2020

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



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Abbreviations and acronyms:

Acute Tox.: Acute toxicity
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
ATE: Acute toxicity estimate
BCF: Bioconcentration Factor
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 Irrit.: Eye irritation
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%
LDLo: Lethal dose low
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
NOEL: No Observed Effect Level
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 Irrit.: Skin irritation
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
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/g83cwzzq>

