

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

1.1 Product identifier

Trade name: AUTOL TP 10
UFI: 3XC0-H0RS-700P-S24V

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

General use: Flow improver for middle distillates

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
Telefax: +49 (0)931-98442
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)

STOT SE 3; H336	May cause drowsiness or dizziness.
Asp. Tox. 1; H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2; H411 (EUH066)	Toxic to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

Labelling (CLP)



Signal word: **Danger**



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Hazard statements:	H304	May be fatal if swallowed and enters airways.
	H336	May cause drowsiness or dizziness.
	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.
	P261	Avoid breathing mist/vapours/spray.
	P271	Use only outdoors or in a well-ventilated area.
	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, C10, aromatics, <1% naphthalene

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

1,2,4-Trimethylbenzene

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:

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.

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

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3.2 Mixtures

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119463583-34-xxxx list no. 918-811-1 CAS 1189173-42-9	Hydrocarbons, C10, aromatics, <1% naphthalene STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. (EUH066).	50 - 70 %
REACH 01-2119458869-15-xxxx list no. 925-653-7 CAS 64742-81-0	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) Asp. Tox. 1; H304. Aquatic Chronic 3; H412. (EUH066).	< 25 %
REACH 01-2119472135-42-xxxx EC No. 202-436-9 CAS 95-63-6	1,2,4-Trimethylbenzene Flam. Liq. 3; H226. Acute Tox. 4; H332. Skin Irrit. 2; H315. Eye Irrit. 2; H319. STOT SE 3; H335. Asp. Tox. 1; H304. Aquatic Chronic 2; H411.	< 5 %
REACH 01-2119561346-37-xxxx EC No. 202-049-5 CAS 91-20-3	Naphthalene Flam. Sol. 2; H228. Acute Tox. 4; H302. Carc. 2; H351. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 1. Aquatic Chronic 1: M = 1.	< 1 %

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	First aider: Pay attention to self-protection! If medical advice is needed, have product container or label at hand.
In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. Take off contaminated clothing and wash it before reuse. 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 immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Caution if victim vomits: Risk of aspiration! Keep airway open. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.
Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Aspiration hazard: in case of swallowing or vomiting danger of penetration into the lungs.
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:

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. Vapours form explosive mixtures with air. The vapours of the product are heavier than air. Beware of reignition.

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:

Use fine water spray to cool endangered containers.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing mist/vapours/spray. Avoid contact with the substance.

If possible, eliminate leakage. Provide adequate ventilation.

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.

Stop leak if safe to do so.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up with oil-absorbing compound.

Never return spills in original containers for re-use.

Additional information:

Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid generation of vapours/aerosols. Avoid breathing mist/vapours/spray.
Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse. Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
When handling large quantities, supply emergency spray.

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:

Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight.
Suitable material: Refined steel.
Unsuitable material: Rubber.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.
Do not store together with: Oxidizing agents.

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
1189173-42-9	Hydrocarbons, C10, aromatics, <1% naphthalene	Germany: TRGS 900 Kurzzeit	100 mg/m ³ (hydrocarbons, aromatic, C9-C14)
		Germany: TRGS 900 Langzeit	50 mg/m ³ (hydrocarbons, aromatic, C9-C14)
64742-81-0	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Germany: TRGS 900 Kurzzeit	100 mg/m ³ (hydrocarbons, aromatic, C9-C14)
		Germany: TRGS 900 Langzeit	50 mg/m ³ (hydrocarbons, aromatic, C9-C14)
95-63-6	1,2,4-Trimethylbenzene	Germany: TRGS 900 Kurzzeit	200 mg/m ³ ; 40 ppm
91-20-3	Naphthalene	Germany: TRGS 900 Langzeit	100 mg/m ³ ; 20 ppm
		Europe: IOELV: TWA	50 mg/m ³ ; 10 ppm
		Germany: TRGS 900 Kurzzeit	8 mg/m ³ ; 1,6 ppm (Aerosol and vapour, may be absorbed through the skin)
		Germany: TRGS 900 Langzeit	2 mg/m ³ ; 0,4 ppm (Aerosol and vapour, may be absorbed through the skin)

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
95-63-6	1,2,4-Trimethylbenzene	Germany: TRGS 903, urine	400 mg/g creatinine	dimethylbenzoic acids	at long term exposure: at the end of the shift after several previous shifts

DNEL/DMEL:

Information about Hydrocarbons, C10, aromatics, <1% naphthalene (CAS 1189173-42-9):
DNEL, workers, inhalative, systemic, long-term: 151 mg/m³
DNEL, workers, dermal, systemic, long-term: 12,5 mg/kg bw/d
DNEL, consumers, inhalative, systemic, long-term: 32 mg/m³
DNEL, consumers, dermal, systemic, long-term: 7,5 mg/kg bw/d
DNEL, consumers, oral, systemic, long-term: 7,5 mg/kg bw/d



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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: In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the WEL levels have been exceeded.

Recommendation: Use filter type A 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: Protective gloves according to DIN EN ISO 374:1.

Glove material: Fluororubber (Viton)

Layer thickness: $\geq 0,71$ mm

Breakthrough time: > 480 min

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:

Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. When handling large quantities, supply emergency spray.

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
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 applicable UEL (Upper Explosive Limit): Not applicable
Flash point/flash point range:	63 °C
Decomposition temperature:	No data available
pH:	Not determined
Viscosity, kinematic:	at 40 °C: 4,75 mm ² /s
Solubility:	Not determined
Water solubility:	Insoluble
Partition coefficient: n-octanol/water:	Not determined



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Vapour pressure: Not determined
Density: at 15 °C: 0,8814 - 0,8854 g/mL
Vapour density: Not determined
Particle characteristics: Not applicable

9.2 Other information

Explosive properties: Product is not explosive.
Vapours can form explosive mixtures with air.
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 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.

10.5 Incompatible materials

Oxidizing agents.

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): Based on available data, the classification criteria are not met.
ATEmix (calculated): $2.000 \text{ mg/kg} < \text{ATE} \leq 5.000 \text{ mg/kg}$

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): $2.000 \text{ mg/kg} < \text{ATE} \leq 5.000 \text{ mg/kg}$

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated, vapour): $> 20 \text{ mg/L/4h}$

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Repeated exposure may cause skin dryness or cracking.

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): STOT SE 3; H336 = May cause drowsiness or dizziness.

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:

None

Other information:

Information about Hydrocarbons, C10, aromatics, <1% naphthalene (CAS 1189173-42-9):
LD50 Rat, oral: 3.492 mg/kg
LD50 Rabbit, dermal: $> 3.160 \text{ mg/kg}$ (OECD 402)
LC50 Rat, inhalative: $> 6,193 \text{ mg/L/4h}$ (OECD 403, vapour, maximum achievable concentration)

Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS 64742-81-0):
LD50 Rat, oral: $> 5.060 \text{ mg/kg}$ (OECD 401)
LD50 Rabbit, dermal: approx. 3.400 mg/kg (OECD 402)
LC50 Rat, dermal: $> 13,1 \text{ mg/L/4 h}$ (OECD 403, vapour)

Symptoms

In case of inhalation: Nausea, vomiting, headache, fatigue, dizziness, unconsciousness.

In case of ingestion:

Nausea, vomiting, pulmonary oedema, potential for chemical pneumonitis.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	Toxic to aquatic life with long lasting effects. Information about Hydrocarbons, C10, aromatics, <1% naphthalene (CAS 1189173-42-9): Fish toxicity: LL50 Oncorhynchus mykiss: 2 - 5 mg/L/96h (OECD 203) Daphnia toxicity: EL50 Daphnia magna (Big water flea): 3 - 10 mg/L/48h (OECD 202) Algae toxicity: EL50 Pseudokirchneriella subcapitata (green algae): 1 - 3 mg/L/72h (OECD 201) Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS 64742-81-0): Fish toxicity: LL50 Oncorhynchus mykiss: 2 - 5 mg/L/96 h (OECD 203) Daphnia toxicity: EL50 Daphnia magna (Big water flea): 1,4 mg/L/48 h (OECD 202) Algae toxicity: EL50 Pseudokirchneriella subcapitata (green algae): 1 - 3 mg/L/72 h (OECD 201)
Water Hazard Class:	2 = obviously hazardous to water (Self-classification (mixture; calculation rule).)

12.2 Persistence and degradability

Further details:	Separation via oil separator. Biodegradability: $\geq 80\%$ / 28 d. Not easily bio-degradable. Information about Hydrocarbons, C10, aromatics, <1% naphthalene (CAS 1189173-42-9): Biodegradability: 49,6%/28d. Inherently biodegradable (OECD 301F). Water solubility: insoluble Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS 64742-81-0): Biodegradability: 74,7%/28d. Easily bio-degradable (OECD 301F). Water solubility: insoluble
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12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:	Not determined
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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

None

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.
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 14 06 03* = Other solvents and solvent mixtures
* = Evidence for disposal must be provided.

Recommendation: 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.
(Hydrocarbons, C10, aromatics, <1% naphthalene)

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

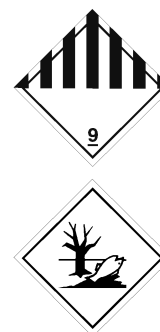
ADR/RID, ADN, IMDG, IATA-DGR:
III

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





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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: 274 335 375 601 650
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: 274 335 375 601 650
Limited quantities: 5 L
EQ: E1
Transport permitted: T
Equipment necessary: PP

Sea transport (IMDG)

EmS: F-A, S-F
Special Provisions: 274 335 375 969
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: TP1, TP29
Stowage and handling: Category A.
Properties and observations: -
Segregation group: none

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 that cannot be assigned to any of the above storage classes

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

Major Accident Ordinance (12. BImSchV):

Environmental hazards: Number 1.3.2 = Code E2,
Quantity threshold 200 000 kg / 500 000 kg

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:

No data available

National regulations - EC member states

Labelling of packaging with <= 125mL content



Signal word:

Danger

Hazard statements:

H304

May be fatal if swallowed and enters airways.

H336

May cause drowsiness or dizziness.

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.

P261

Avoid breathing mist/vapours/spray.

P271

Use only outdoors or in a well-ventilated area.

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.

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, 40, 75

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Classification procedure: Health hazards, environmental hazards: Calculation method



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

H226 = Flammable liquid and vapour.
H228 = Flammable solid.
H302 = Harmful if swallowed.
H304 = May be fatal if swallowed and enters airways.
H315 = Causes skin irritation.
H319 = Causes serious eye irritation.
H332 = Harmful if inhaled.
H335 = May cause respiratory irritation.
H336 = May cause drowsiness or dizziness.
H351 = Suspected of causing cancer.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.
H411 = Toxic to aquatic life with long lasting effects.
H412 = Harmful to aquatic life with long lasting effects.
EUH066 = Repeated exposure may cause skin dryness or cracking.

Reason of change: Changes in section 14: ADR 2025

Date of first version: 8.9.2020

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 Acute: Hazardous to the aquatic environment - acute
Aquatic Chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
Asp. Tox.: Aspiration toxicity
ATE: Acute toxicity estimate
Carc.: Carcinogenicity
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
EL50: Effective loading rate 50%
EN: European Standard
EQ: Excepted quantities
EU: European Union
Eye Irrit.: Eye irritation
Flam. Liq.: Flammable liquid
Flam. Sol.: Flammable solid
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
M-factor: Multiplication factor
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/qbpsx470>

