

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

1.1 Product identifier

Trade name: AUTOL TP 10
UFI: UGCR-9382-930U-9MAX

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**



AUTOL TP 10

Material number 10830

Safety Data Sheet

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

Revision date: 22.4.2024
Version: 3.1
Replaces version: 3.0
Language: en-DE
Date of print: 30.4.2024

Page: 2 of 13

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%)

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 01-2119463583-34-xxxx list no. 918-811-1 CAS 64742-94-5	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).	15 - 30 %

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! 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. Seek medical attention.
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:	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

May cause drowsiness or dizziness. 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:

Water spray jet, foam, extinguishing powder

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: Cool endangered containers with water jetspray. Do not allow fire water to penetrate into surface or ground water. If necessary notify appropriate authorities.



AUTOL TP 10

Material number 10830

Safety Data Sheet

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

Revision date: 22.4.2024
Version: 3.1
Replaces version: 3.0
Language: en-DE
Date of print: 30.4.2024

Page: 4 of 13

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide good ventilation and/or an exhaust system in the work area. Eliminate all ignition sources if safe to do so. 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.
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.
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.
Vapours can form explosive mixtures with air.

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.
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: Strong oxidizing agents

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

7.3 Specific end use(s)

No information available.

Safety Data Sheet

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
64742-94-5	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)

DNEL/DMEL: Information about Hydrocarbons, C10, aromatics, <1% naphthalene (CAS 64742-94-5):
 DNEL workers, long-term, dermal: 12,5 mg/kg bw/d
 DNEL workers, long-term, inhalative: 151 mg/m³
 DNEL consumers, long-term, dermal: 7,5 mg/kg bw/d
 DNEL consumers, long-term, inhalative: 32 mg/m³
 DNEL consumers, long-term, oral: 7,5 mg/kg bw/d

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 A according to EN 14387.

Hand protection: Solvent resistant protective gloves (EN 374).
 Glove material: Nitrile rubber - Layer thickness: 0,5 mm.
 Breakthrough time: >480 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. (EN 13034).

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.
 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
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
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 dangerous reactions with proper and specified storage and handling.



AUTOL TP 10

Material number 10830

Safety Data Sheet

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

Revision date: 22.4.2024
Version: 3.1
Replaces version: 3.0
Language: en-DE
Date of print: 30.4.2024

Page: 7 of 13

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

10.6 Hazardous decomposition products

Thermal decomposition: No decomposition when used properly.
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): > 5.000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): 2.000 mg/kg < ATE ≤ 5.000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (estimated): > 20 mg/L

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.
NOAEC Rat: ≥ 300 ppm (OECD 421)

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.



AUTOL TP 10

Material number 10830

Safety Data Sheet

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

Revision date: 22.4.2024
Version: 3.1
Replaces version: 3.0
Language: en-DE
Date of print: 30.4.2024

Page: 8 of 13

11.2 Information on other hazards

Endocrine disrupting properties:

No data available

Other information:

Information about Hydrocarbons, C10, aromatics, <1% naphthalene (CAS 64742-94-5):

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

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

LC50 Rat, inhalative: > 4.688 mg/L/4 h (OECD 403 (vapors))

Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS 64742-81-0):

LD50 Rat, oral: > 5.060 mg/kg (OECD 401)

LD50 Rabbit, dermal: approx. 3.400 mg/kg (OECD 402)

LC50 Rat, dermal: > 13,1 mg/L/4 h (OECD 403 (vapors))

Symptoms

eye irritations, irritation to respiratory tract, headache, 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, C10, aromatics, <1% naphthalene (CAS 64742-94-5):

Fish toxicity:

LL50 Oncorhynchus mykiss: 2 - 5 mg/L/96 h (OECD 203)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 3 - 10 mg/L/48 h (OECD 202)

Algae toxicity:

EC50 Pseudokirchneriella subcapitata (green algae): 1 - 3 mg/L/72 h (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).)



AUTOL TP 10

Material number 10830

Safety Data Sheet

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

Revision date: 22.4.2024
Version: 3.1
Replaces version: 3.0
Language: en-DE
Date of print: 30.4.2024

Page: 9 of 13

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 64742-94-5):
Biodegradability: $49,6\%$ / 28 d. Inherently biodegradable (OECD 301F).
Water solubility: insoluble
Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS 64742-81-0):
Biodegradability: $74,7\%$ / 28 d. Easily bio-degradable (OECD 301F).
Water solubility: insoluble

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
not determined

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

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

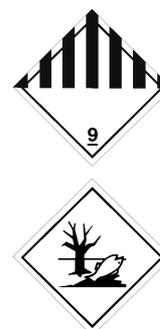
14.6 Special precautions for user

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





AUTOL TP 10

Material number 10830

Safety Data Sheet

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

Revision date: 22.4.2024

Version: 3.1

Replaces version: 3.0

Language: en-DE

Date of print: 30.4.2024

Page: 11 of 13

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

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:	2 = obviously hazardous to water (Self-classification (mixture; calculation rule).)
Incident regulation:	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:	The product is not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

Safety Data Sheet

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

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

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:

H304 = May be fatal if swallowed and enters airways.

H336 = May cause drowsiness or dizziness.

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 9: Physical and chemical properties

Date of first version:

8.9.2020

Department issuing data sheet:

see section 1: Department responsible for information



AUTOL TP 10

Material number 10830

Safety Data Sheet

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

Revision date: 22.4.2024
Version: 3.1
Replaces version: 3.0
Language: en-DE
Date of print: 30.4.2024

Page: 13 of 13

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
ATE: Acute toxicity estimate
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%
EL50: Effective loading rate 50%
EN: European Standard
EQ: Excepted quantities
EU: European Union
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
NOAEC: No observed adverse 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
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>

