

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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## Mabanol Argon Truck Mono 50

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

#### 1.1. Product identifier

Trade name/designation:

Mabanol Argon Truck Mono 50

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

Use of the substance/mixture:

Motor oil

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Mabanol GmbH & Co. KG

Koreastraße 7

20457 Hamburg

Germany

Telephone: 0049 (0) 40 36809988

E-mail: info@mabanol.com

Website: www.mabanol.com

#### 1.4. Emergency telephone number

Giftinformationszentrale Göttingen , 24h: 0049 (0) 551 1 92 40

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	

#### \* 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

Hazard components for labelling:

Phenol, dodecyl-, branched; Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts; mineral oil

#### hazard statements for health hazards

H319 Causes serious eye irritation.

Supplemental hazard information: -

#### Precautionary Statements Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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### Precautionary Statements Response

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

### Additional information:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

### 2.3. Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Additional information:

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 68457-79-4 EC No.: 270-608-0 REACH No.: 01-2119493628-22	<b>Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts</b> Aquatic Chronic 2, Eye Dam. 1, Skin Irrit. 2 H315-H318-H411	1 - < 5 weight-%
	<b>mineral oil</b> Asp. Tox. 1 H304  <b>Additional information:</b> The mineral oil contained can be described by one or more of the following numbers: 64742-54-7, 64742-65-0, 64742-55-8, 64742-56-9, 265-157-1, 265-169-7, 265-158-7, 265-159-2, 01-2119484627-25, 01-2119471299-27, 01-2119487077-29, 01-2119480132-48.	1 - < 5 weight-%
	<b>Calcium branched alkyl phenate sulphide (overbased)</b> Aquatic Chronic 4 H413	1 - < 5 weight-%
CAS No.: 121158-58-5 EC No.: 310-154-3 REACH No.: 01-2119513207-49	<b>Phenol, dodecyl-, branched</b> Aquatic Acute 1, Aquatic Chronic 1, Eye Dam. 1, Repr. 1B, Skin Corr. 1C H314-H318-H360-H400-H410 M-factor (acute): 10 M-factor (chronic): 10	< 0.1 weight-%

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### Following inhalation:

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

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### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician. Take off immediately all contaminated clothing.

### After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

### After ingestion:

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

Observe risk of aspiration if vomiting occurs.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Sand.

In case of major fire and large quantities: Water spray jet. Water mist.

#### Unsuitable extinguishing media:

Full water jet.

### 5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

#### Hazardous combustion products:

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Sulphur dioxide (SO<sub>2</sub>).

Nitrogen oxides (NO<sub>x</sub>).

### 5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Use personal protection equipment. Ventilate affected area. Special danger of slipping by leaking/spilling product.

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Personal protection equipment: see section 8.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Prevent spread over a wide area (e.g. by containment or oil barriers).

### 6.3. Methods and material for containment and cleaning up

#### For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

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### 6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Wear personal protection equipment (refer to section 8). Avoid: generation/formation of aerosols. Generation/formation of mist.

#### Fire prevent measures:

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

Fire class: B (Fires of liquids or liquid turning substances).

#### Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Used working clothes should not be worn outside the work area. Wash contaminated clothing before reuse.

### \* 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Only use containers specifically approved for the substance/product. Keep container tightly closed in a cool, well-ventilated place.

#### Hints on storage assembly:

Do not store together with: Gas. Explosives. P8 Oxidising liquids and solids. Radioactive substances. Infectious substances.

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

#### Further information on storage conditions:

Temperature control required. Keep container tightly closed.

Protect against: Light. UV-radiation/sunlight. Air.

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### \* 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

No data available

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts CAS No.: 68457-79-4	8.13 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts CAS No.: 68457-79-4	2.06 mg/m <sup>3</sup>	① DNEL Consumer ② inhalative, long-term, systemic
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts CAS No.: 68457-79-4	11.87 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts CAS No.: 68457-79-4	5.93 mg/kg bw/day	① DNEL Consumer ② dermal, long-term, systemic

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Substance name	DNEL value	① DNEL type ② Exposure route
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts CAS No.: 68457-79-4	0.24 mg/kg bw/day	① DNEL Consumer ② oral, long-term, systemic
Phenol, dodecyl-, branched CAS No.: 121158-58-5	1.762 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
Phenol, dodecyl-, branched CAS No.: 121158-58-5	0.79 mg/m <sup>3</sup>	① DNEL Consumer ② inhalative, long-term, systemic
Phenol, dodecyl-, branched CAS No.: 121158-58-5	0.25 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
Phenol, dodecyl-, branched CAS No.: 121158-58-5	0.075 mg/kg bw/day	① DNEL Consumer ② dermal, long-term, systemic
Phenol, dodecyl-, branched CAS No.: 121158-58-5	0.075 mg/kg bw/day	① DNEL Consumer ② oral, long-term, systemic

Substance name	PNEC Value	① PNEC type
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts CAS No.: 68457-79-4	0.004 mg/l	① PNEC aquatic, freshwater
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts CAS No.: 68457-79-4	0.0046 mg/l	① PNEC aquatic, marine water
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts CAS No.: 68457-79-4	100 mg/l	① PNEC sewage treatment plant
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts CAS No.: 68457-79-4	0.024 mg/kg	① PNEC sediment, freshwater
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts CAS No.: 68457-79-4	0.002 mg/kg	① PNEC sediment, marine water
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts CAS No.: 68457-79-4	0.002 mg/kg	① PNEC soil
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts CAS No.: 68457-79-4	10.67 mg/kg	① PNEC secondary poisoning
Phenol, dodecyl-, branched CAS No.: 121158-58-5	0.000074 mg/l	① PNEC aquatic, freshwater
Phenol, dodecyl-, branched CAS No.: 121158-58-5	0.000007 mg/l	① PNEC aquatic, marine water
Phenol, dodecyl-, branched CAS No.: 121158-58-5	0.26 mg/kg	① PNEC sediment, freshwater
Phenol, dodecyl-, branched CAS No.: 121158-58-5	0.026 mg/kg	① PNEC sediment, marine water
Phenol, dodecyl-, branched CAS No.: 121158-58-5	0.118 mg/kg	① PNEC soil

## \* 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Provide adequate ventilation.

### 8.2.2. Personal protection equipment

#### Eye/face protection:

Safety goggles with side protection. In case of increased risk add protective face shield. DIN EN 166.

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### Skin protection:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber). FKM (fluoro rubber). Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable protective clothing: flame-resistant.

### Respiratory protection:

Usually no personal respirative protection necessary.

Respiratory protection necessary at: exceeding exposure limit values. aerosol or mist formation. Suitable respiratory protection apparatus: Filtering device (full mask or mouthpiece) with filter: A2, A2/P2, ABEK.

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.

### 8.2.3. Environmental exposure controls

No information available.

### \* 8.3. Additional information

air limit values:

Possibility of exposure to Aerosols

Limit value (TLV-TWA) = 5 mg/m<sup>3</sup> (Source: ACGIH)

Limit value (TLV-STEL) = 10 mg/m<sup>3</sup> (Source: ACGIH)

## SECTION 9: Physical and chemical properties

### \* 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state: Liquid

Colour: clear

Odour: not determined

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	290 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.903 g/cm <sup>3</sup>	15 °C	DIN 51757	
Bulk density	<i>not determined</i>			
Water solubility	Immiscible			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	238.5 mm <sup>2</sup> /s	40 °C	DIN EN ISO 3104	
Pour point	-21 °C		ISO 3016	

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### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

Oxidising agent, strong.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
68457-79-4	Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	<b>LD<sub>50</sub> oral:</b> 3,600 mg/kg (Rat) OECD 401 <b>LD<sub>50</sub> dermal:</b> >20,000 mg/kg (Rabbit) OECD 402
121158-58-5	Phenol, dodecyl-, branched	<b>LD<sub>50</sub> oral:</b> 2,100 mg/kg (Rat) OECD 401 <b>LD<sub>50</sub> dermal:</b> 15,000 mg/kg (Rabbit) OECD 402

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

#### Skin corrosion/irritation:

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

#### Serious eye damage/irritation:

Causes serious eye irritation.

#### Respiratory or skin sensitisation:

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

#### Germ cell mutagenicity:

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

#### Carcinogenicity:

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

#### Reproductive toxicity:

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

#### STOT-single exposure:

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

#### STOT-repeated exposure:

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

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### Aspiration hazard:

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

### Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

## SECTION 12: Ecological information

### \* 12.1. Toxicity

CAS No.	Substance name	Toxicological information
68457-79-4	Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	<b>LC<sub>50</sub></b> : 4.5 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) <b>ErC<sub>50</sub></b> : 24 mg/l 3 d (Algae/water plant, Desmodesmus subspicatus) <b>EC<sub>50</sub></b> : 23 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) <b>NOEC</b> : 0.8 mg/l 21 d (crustaceans, Daphnia magna (Big water flea))
121158-58-5	Phenol, dodecyl-, branched	<b>LC<sub>50</sub></b> : 40 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) <b>NOEC</b> : 0.0037 mg/l 21 d (crustaceans, Daphnia magna (Big water flea)) <b>ErC<sub>50</sub></b> : 0.36 mg/l 3 d (Algae/water plant, Desmodesmus subspicatus)

### Additional ecotoxicological information:

If this product contains phenol, dodecyl, branched (EC No. 310-154-3), this product is not to be classified as dangerous for the environment. Raw materials containing this substance have not been classified by our suppliers as hazardous to the environment on the basis of test data, expert judgement or analogy assessments.

### 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
68457-79-4	Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	—	Not readily biodegradable (according to OECD criteria).
121158-58-5	Phenol, dodecyl-, branched	—	Not readily biodegradable (according to OECD criteria)

### Additional information:

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

### 12.3. Bioaccumulative potential

CAS No.	Substance name	Log K <sub>OW</sub>	Bioconcentration factor (BCF)
68457-79-4	Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	0.69	
121158-58-5	Phenol, dodecyl-, branched	7.1	2.9

### Accumulation / Evaluation:

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

No information available.



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### \* 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
68457-79-4	Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
121158-58-5	Phenol, dodecyl-, branched	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
	mineral oil	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
	Calcium branched alkyl phenate sulphide (overbased)	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

#### Waste code packaging:

15 01 10 \* packaging containing residues of or contaminated by dangerous substances

\*: Evidence for disposal must be provided.

### Waste treatment options

#### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

#### Appropriate disposal / Package:

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

### 14.1. UN-No.

not relevant

### 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

not relevant

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

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### SECTION 15: Regulatory information

#### \* 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. EU legislation

###### Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

Directive 2010/75/EU on industrial emissions: No information available.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds: No information available.

Observe in addition any national regulations!

##### 15.1.2. National regulations

###### [DE] National regulations

###### Restrictions of occupation

To follow: §22 JArbSchG.

###### Störfallverordnung

###### for substances contained in the product:

This product is not assigned to a hazard category.

###### Technische Anleitung Luft (TA-Luft)

###### Klasse 1:

5.2.5: organic substances, to be indicated as total carbon at  $m \geq 0.50$  kg/h: Konz.  $50 \text{ mg/m}^3$

###### Anteil 1:

99 %

###### Water hazard class (WGK)

###### WGK:

2 - deutlich wassergefährdend

###### Remark:

Self-classification (mixture; calculation rule).

##### 15.2. Chemical Safety Assessment

not applicable.

### SECTION 16: Other information

#### 16.1. Indication of changes

2.2.	Label elements
3.2.	Mixtures
4.1.	Description of first aid measures
7.2.	Conditions for safe storage, including any incompatibilities
8.1.	Control parameters
8.2.	Exposure controls
8.3.	Additional information
9.1.	Information on basic physical and chemical properties
12.1.	Toxicity
12.5.	Results of PBT and vPvB assessment
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture

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### 16.2. Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (International Carriage of Dangerous Goods by Road)  
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen  
CAS Chemical Abstracts Service  
DNEL: Derived No Effect Level  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NIOSH: National Institute of Occupational Safety and Health  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect level  
NTP: National Toxicology Program  
N/A: not applicable  
OEL: Occupational Exposure limit (Arbeitsplatzgrenzwert)  
OSHA: Occupational Safety and Health Administration  
PEL: permissible exposure limit (Zulässiger Expositionsgrenzwert)  
PBT: persistent bioaccumulative toxic  
PNEC: predicted no effect concentration  
REL: Recommended exposure limit (Empfohlene Expositionsgrenze)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit (Kurzzeitgrenzwert) (15 min)  
SVHC: substance of very high concern  
TLV: Threshold Limit Values (Schwellwert Grenzwerte)  
TRGS Technische Regeln für Gefahrstoffe  
TSCA: Toxic Substances Control Act  
TWA: Time Weighted Average (Zeitlich gewichteter Mittelwert) (8 h)  
VOC: Volatile Organic Compounds  
vPvB: very persistent and very bioaccumulative  
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
WGK: Wassergefährdungsklasse

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H360	May damage fertility or the unborn child.
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.
H413	May cause long lasting harmful effects to aquatic life.

### 16.6. Training advice

No data available

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

\* Data changed compared with the previous version