

according to Regulation (EC) No 1907/2006 (REACH) as amended

# **TUNE 4**

Creation date 15th October 2020

Revision date Version 1.0

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

**1.1. Product identifier**Substance / mixture
Number

TUNE 4
mixture
TUNE 4

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

Mixture's intended use For professional use only. Laboratory chemical

substances.

The use descriptors

SU 24 Scientific research and development

PC 21 Laboratory chemicals

then those referred in Section 1.

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

#### **Manufacturer**

Name or trade name Analytika, spol. s r.o.

Address Ke Klíčovu 816/2a, Praha 9 - Vysočany, 190 00

Czech Republic

Identification number (CRN)14891883VAT Reg NoCZ14891883

Phone +420 286 589 616
E-mail msds@analytika.net
Web address www.analytika.net

#### Competent person responsible for the safety data sheet

Name Analytika, spol. s r.o. E-mail msds@analytika.net

### 1.4. Emergency telephone number

National Health Service (NHS) 111

National poisoning information centre Scotland, NHS 24: 111

112

#### **SECTION 2: Hazards identification**

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

#### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Met. Corr. 1, H290 Skin Corr. 1, H314

Full text of all classifications and hazard statements is given in the section 16.

#### Most serious adverse physico-chemical effects

May be corrosive to metals.

#### Most serious adverse effects on human health and the environment

Causes severe skin burns and eye damage.



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# 2.2. Label elements



#### Signal word

Danger

#### **Hazardous substances**

nitric acid

#### **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

### **Precautionary statements**

P260 Do not breathe vapours/spray.

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

protection.

P301+P330+ IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P331

P303+P361+ IF ON SKIN (or hair): Take off immediately all contaminated clothing.

P353 Rinse skin with water or shower.

P305+P351+ IF IN EYES: Rinse cautiously with water for several minutes. Remove

P338 contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor.

#### 2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.



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# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **Chemical characterization**

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 007-004-00 -1 CAS: 7697-37-2 EC: 231-714-2 Registration number: 01-2119487297- 23-0070	nitric acid	5	Ox. Liq. 2, H272 Met. Corr. 1, H290 Skin Corr. 1A, H314 Acute Tox. 3, H331 EUH071 Specific concentration limit: Skin Corr. 1A, H314: C ≥ 20 % Skin Corr. 1B, H314: 5 % ≤ C < 20 % Ox. Liq. 2, H272: C ≥ 99 % Ox. Liq. 3, H272: 65 % ≤ C < 99 % Met. Corr. 1, H290: C ≥ 1 %	1, 2
CAS: 7803-55-6 EC: 232-261-3	Ammonium metavanadate	0,00230	Acute Tox. 3, H301 Eye Irrit. 2, H319 Acute Tox. 4, H332 Repr. 2, H361 STOT RE 1, H372 Aquatic Chronic 2, H411	5
CAS: 7778-39-4 EC: 231-901-9	Arsenic acid	0,00190	Acute Tox. 3, H301+H331 Acute Tox. 4, H312 Skin Corr. 1C, H314 Carc. 1A, H350 Repr. 2, H361 Aquatic Chronic 1, H410	3, 4
CAS: 7783-00-8 EC: 231-974-7	Selenious acid	0,00163	Acute Tox. 3, H301+H331 STOT RE 2, H373 (respiratory tract (inhalation)) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	



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#### Notes

- 1 Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- 2 Substance for which exposure limits of Community for working environment exist.
- 3 Substance of very high concern SVHC.
- 4 The substance is included in Annex XIV of the REACH Regulation
- 5 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

#### If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse cautiously with water for several minutes.

### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.



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#### If swallowed

DO NOT INDUCE VOMITING - there is danger of further damage to the gastrointestinal tract!!! Danger of esophageal and gastric perforation! RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

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

#### If inhaled

Inhaling vapours can cause corrosion of the breathing system.

#### If on skin

Causes severe skin burns.

#### If in eyes

Causes serious eye damage.

#### If swallowed

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

#### More information

Other relevant information is not available.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

#### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

#### **SECTION 6: Accidental release measures**

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

May be corrosive to metals. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.



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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents. Absorb spillage to prevent material damage.

#### 6.4. Reference to other sections

See the Section 7, 8 and 13.

#### **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale aerosols. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

# 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep only in original packaging.

Storage class

Material of package

8B - Non-combustible corrosive substances HDPE (2), High-density (linear) polyethylene (Plastics)



#### 7.3. Specific end use(s)

not available

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

# **European Union**

# Commission Directive (EU) 2019/983

Substance name (component)	Туре	Value
Arsenic acid (CAS: 7778-39-4)	OEL 8 hours	0,01 mg/m <sup>3</sup>

# **European Union**

# **Commission Directive 2006/15/EC**

Substance name (component)	Туре	Value
nitric poid (CAC), 7607, 27, 2)	OEL 15 minutes	2,6 mg/m <sup>3</sup>
nitric acid (CAS: 7697-37-2)	OEL 15 minutes	1 ppm



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# United Kingdom of Great Britain and Northern Ireland

# EH40/2005 Workplace exposure limits (Third edition, published 2018)

Substance name (component)	Туре	Value
nitric poid (CAC), 7607, 27, 2)	WEL 15min	2,6 mg/m <sup>3</sup>
nitric acid (CAS: 7697-37-2)	WEL 15min	1 ppm

### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

# Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

#### Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

#### Respiratory protection

Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

liquid at 20°C

#### Thermal hazard

Not available.

#### **Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

#### **SECTION 9: Physical and chemical properties**

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

App	eara	nce
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Physical state

color	data not available
Odour	data not available
Odour threshold	data not available
рН	1 (undiluted)
Melting point/freezing point	data not available
Initial boiling point and boiling range	data not available
Flash point	data not available
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Unner/lower flammability or explosive limits	

Upper/lower flammability or explosive limits

flammability limits data not available explosive limits data not available Vapour pressure data not available Vapour density data not available



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Relative density	data not available		
Solubility(ies)			
solubility in water	soluble		
solubility in fats	data not available		
Partition coefficient: n-octanol/water	data not available		
Auto-ignition temperature	data not available		
Decomposition temperature	data not available		
Viscosity	data not available		
Explosive properties	data not available		
Oxidising properties	data not available		
data not available			
9.2. Other information			
Density	data not available		
ignition temperature	data not available		
none			

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The mixture is non-flammable.

#### 10.2. Chemical stability

The product is stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

The product is stable under normal conditions.

#### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

#### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents. Thereby a dangerous exothermic reaction will be prevented. May be corrosive to metals.

#### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous products are formed at high temperature and in fire, such as carbon monoxide and carbon dioxide, heavy smoke and nitrogen oxides. Dangerous outcomes such as carbon monoxide and carbon dioxide, heavy smoke and nitrogen oxides are formed at high temperature and in fire.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

No toxicological data is available for the mixture.



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# **Acute toxicity**

Based on available data the classification criteria are not met.

#### Ammonium metavanadate

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	58.1 mg/kg		Rat (Rattus norvegicus)	
Inhalation	LC50	7.8 µg/l	4 hour	Rat (Rattus norvegicus)	
Dermal	LD <sub>5</sub> 0	2102 mg/kg		Rat (Rattus norvegicus)	
Intravenous	LD <sub>50</sub>	3690 µg/kg		Rat (Rattus norvegicus)	

#### nitric acid

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Inhalation	LC <sub>50</sub>	260 mg/m <sup>3</sup>	30 min	Rat	

#### Selenious acid

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Intravenous	LD <sub>50</sub>	11 mg/kg		Mouse	

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

### Serious eye damage/irritation

Causes severe skin burns and eye damage.

# 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.



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# **Reproductive toxicity**

Based on available data the classification criteria are not met.

#### Ammonium metavanadate

Effect	Parameter	Value	Time of exposure	Specific target organ	Result	Species	Sex
Developme ntal toxicity	TDLo	11.28 mg/kg			Fetotoxicity , Toxic for reproductio n		

#### nitric acid

Effect	Parameter	Value	Time of exposure	Specific target organ	Result	Species	Sex
Developme ntal toxicity	TDLo	21150 mg/kg	21 day	Fetus	Fetotoxicity	Rat	

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

# Repeated dose toxicity

#### Ammonium metavanadate

Route of exposure	Parameter	Result	Value	Time of exposure	Species	Sex
Oral	TDLo		482 mg/kg	14 day	Rat (Rattus norvegicus)	

### **Aspiration hazard**

Inhalation of vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity



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# **Acute toxicity**

Data for the mixture are not available.

#### Arsenic acid

Parameter	Value	Time of exposure	Species	Environme nt	Source
EC50	13 mg/l of air		Daphnia (Daphnia magna)		
TLm	10-100 mg/l	96 hour	Other aquatic organisms		
EC <sub>0</sub>	6.2 mg/l		Daphnia (Daphnia magna)		
EC 100	33 mg/l		Daphnia (Daphnia magna)		

#### nitric acid

Parameter	Value	Time of exposure	Species	Environme nt	Source
LD50	100-10 mg/l	96 hour			medisalar m
LC 100	25-36 mg/l		Fishes		medisalar m
TLm	72 mg/l	96 hour	Fishes (Gambusia affinis)	Freshwater	
LC 100	36 mg/l		Fishes (Lepomis macrochirus)		
LC50	33-100 mg/l	48 hour	Aquatic invertebrates (Ophryotrocha diadema)	Salt water	

# 12.2. Persistence and degradability

The mixture is not biodegradable.

### 12.3. Bioaccumulative potential

Insignificant.

# 12.4. Mobility in soil

The product is soluble and mobile in water and soil. Contamination of water courses may occur in the event of rain.

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

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

#### 12.6. Other adverse effects

Data not available.

# **SECTION 13: Disposal considerations**



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#### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

20 01 14 Acids \*

#### Packaging waste type code

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

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

# **SECTION 14: Transport information**

#### **14.1. UN** number

UN 2031

#### 14.2. UN proper shipping name

NITRIC ACID

#### 14.3. Transport hazard class(es)

8 Corrosive substances

#### 14.4. Packing group

II - substances presenting medium danger

#### 14.5. Environmental hazards

not available

#### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

#### **Additional information**

Hazard identification No. UN number Classification code Safety signs 80 2031

C1





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# Air transport - ICAO/IATA

Packaging instructions passenger 851 Cargo packaging instructions 855

**Marine transport - IMDG** 

EmS (emergency plan) F-A, S-B Marine Pollutant No

#### **SECTION 15: Regulatory information**

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

#### 15.2. Chemical safety assessment

not available

#### **SECTION 16: Other information**

# A list of standard risk phrases used in the safety data sheet

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to the respiratory tract (inhalation) through prolonged or repeated exposure.
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.
H301+H331	Toxic if swallowed or if inhaled.
Guidelines for	safe handling used in the safety data sheet

#### Guidelines for safe handling used in the safety data sheet

P260 Do not breathe vapours/spray.



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

protection.
P301+P330+ IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P331

Creation date

P303+P361+ IF ON SKIN (or hair): Take off immediately all contaminated clothing.

P353 Rinse skin with water or shower.

P305+P351+ IF IN EYES: Rinse cautiously with water for several minutes. Remove

P338 contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor.

### A list of additional standard phrases used in the safety data sheet

EUH071 Corrosive to the respiratory tract.

#### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

#### Key to abbreviations and acronyms used in the safety data sheet

ADR E	European agree	ment concerning	the internati	ional carriage o	f dangerous

goods by road

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging

of substance and mixtures

DNEL Derived no-effect level

EC Identification code for each substance listed in EINECS

EC50 Concentration of a substance when it is affected 50% of the population

EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan EU European Union

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships

Carrying Dangerous Chemicals

ICso Concentration causing 50% blockade ICAO International Civil Aviation Organization IMDG International Maritime Dangerous Goods

INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry

LC50 Lethal concentration of a substance in which it can be expected death of

50% of the population

LD50 Lethal dose of a substance in which it can be expected death of 50% of

the population

LOAEC Lowest observed adverse effect concentration

LOAEL Lowest observed adverse effect level log Kow Octanol-water partition coefficient

MARPOL International Convention for the Prevention of Pollution From Ships

NOAEC No observed adverse effect concentration



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NOAEL No observed adverse effect level NOEC No observed effect concentration

NOEL No observed effect level OEL Occupational Exposure Limits

PBT Persistent, Bioaccumulative and Toxic PNEC Predicted no-effect concentration

ppm Parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from

the UN Model Regulations

UVCB Substances of unknown or variable composition, complex reaction

products or biological materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

Acute Tox. Acute toxicity

Aquatic Acute Hazardous to the aquatic environment

Aquatic Chronic Hazardous to the aquatic environment (chronic)

Carc. Carcinogenicity
Eye Irrit. Eye irritation
Met. Corr. Corrosive to metals

Ox. Liq. Oxidising liquid Repr. Reproductive toxicity

Skin Corr. Skin corrosion

STOT RE Specific target organ toxicity - repeated exposure

### **Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

#### **Recommended restrictions of use**

not available

#### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

#### More information

Classification procedure - calculation method.

#### **Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.