

Safety Data Sheet

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



Trade name : Apex Aqua Impregneergrond TP Blank
Revision date : 16.02.2015
Print date : 21-05-2015

Version (Revision) : 6.0.0 (5.0.0)

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

1.1 Product identifier

Apex Aqua Impregneergrond TP Blank (17-0595-000)

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

Coating for industry. Paint/paint-related material for industrial/professional use.

1.3 Details of the supplier of the safety data sheet

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

Anker Stuy Verven B.V.

Street : Hellingwal 1

Postal code/city : NL - 8407 EM Terwispe

Telephone : +31 513 - 46 50 00

Telefax : +31 513 - 46 50 30

Information contact : info@ankerstuy.nl

1.4 Emergency telephone number

Nationaal Vergiftigingen Informatie Centrum (NVIC): +31 30 - 274 88 88 (Office hours 08:00 - 16:30 GMT +1). Outside office hours: call a Poison Center or doctor/physician.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2A ; Causes serious eye irritation.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

2.2 Label elements

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

Hazard pictograms



Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

TRIETHYLAMINE ; CAS No. : 121-44-8

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash face, hands and all exposed skin thoroughly after handling.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

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P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains NEODECANOIC ACID, COBALT SALT ; 2-BUTANONE OXIME. May produce an allergic reaction.

2.3 Other hazards

None

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

TRIETHYLAMINE ; REACH registration No. : 01-2119475467-26 ; EC No. : 204-469-4; CAS No. : 121-44-8

Weight fraction : 1 - 2,5 %

Classification 67/548/EEC : F ; R11 T ; R23/24 C ; R35 Xi ; R41 Xn ; R22

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Acute Tox. 3 ; H311 Acute Tox. 3 ; H331 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 STOT SE 3 ; H335

(2-METHOXYMETHYLETHOXY)PROPANOL ; REACH registration No. : 01-2119450011-60 ; EC No. : 252-104-2; CAS No. : 34590-94-8

Weight fraction : < 2,5 %

Classification 67/548/EEC : Substance with a common (EC) occupational exposure limit value.

Classification 1272/2008 [CLP] : Substance with a common (EC) occupational exposure limit value.

NEODECANOIC ACID, COBALT SALT ; REACH registration No. : 01-2119970733-31 ; EC No. : 248-373-0; CAS No. : 27253-31-2

Weight fraction : 0,1 - 1 %

Classification 67/548/EEC : Repr. Cat.3 ; R62 N ; R51/53 R43 Xn ; R22 Xi ; R38

Classification 1272/2008 [CLP] : Repr. 2 ; H361f Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

2-BUTANONE OXIME ; REACH registration No. : 01-2119539477-28 ; EC No. : 202-496-6; CAS No. : 96-29-7

Weight fraction : 0,1 - 1 %

Classification 67/548/EEC : Carc. Cat.3 ; R40 R43 Xi ; R41 Xn ; R21

Classification 1272/2008 [CLP] : Carc. 2 ; H351 Eye Dam. 1 ; H318 Acute Tox. 4 ; H312 Skin Sens. 1 ; H317

Additional information

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

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

When in doubt or if symptoms are observed, get medical advice. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

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No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam; Carbon dioxide (CO₂) Extinguishing powder; Water mist;

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not inhale the vapour. Provide for sufficient ventilation.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

6.4 Reference to other sections

None

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Do not breathe gas/vapour/aerosol. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. See chapter 8 of the safety data sheet (Personal protection equipment) Never use pressure to empty container. Keep/Store only in original container. Comply with the health and safety at work laws. Do not allow to enter ground-water, surface water or drains, even not in small quantities.

7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Further information on storage conditions

Use only in well-ventilated areas. Store between +5 and 35 °C in a dry, well ventilated place away from sources of heat and direct sunlight. Store between +5 and 35 °C in a dry, well ventilated place away from sources of heat and direct sunlight. When using do not smoke. Only allow access to authorised staff. Prevent leaks and prevent soil / water pollution caused by leaks.

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7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection



8.1 Control parameters

Occupational exposure limit values

TRIETHYLAMINE ; CAS No. : 121-44-8

Limit value type (country of origin) : STEL (EC)

Limit value : 3 ppm / 12,6 mg/m³

Remark : H

Version : 08-06-2000

Limit value type (country of origin) : TWA (EC)

Limit value : 2 ppm / 8,4 mg/m³

Remark : H

Version : 08-06-2000

Limit value type (country of origin) : Exposure Limit (8h) (NL)

Limit value : 4,2 mg/m³

Remark : H

Version : 01-01-2007

Limit value type (country of origin) : Exposure Limit (15min) (NL)

Limit value : 12,6 mg/m³

Remark : H

Version : 01-01-2007

(2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8

Limit value type (country of origin) : TWA (EC)

Limit value : 50 ppm / 308 mg/m³

Remark : H

Version : 08-06-2000

Limit value type (country of origin) : Exposure Limit (8h) (NL)

Limit value : 300 mg/m³

Version : 01-01-2007

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL worker (local) (TRIETHYLAMINE ; CAS No. : 121-44-8)

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : 8,4 mg/m³

Limit value type : DNEL worker (local) (TRIETHYLAMINE ; CAS No. : 121-44-8)

Exposure route : Inhalation

Exposure frequency : Short-term (acute)

Limit value : 12,6 mg/m³

Limit value type : DNEL worker (systemic) (TRIETHYLAMINE ; CAS No. : 121-44-8)

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : 8,4 mg/m³

Limit value type : DNEL worker (systemic) (TRIETHYLAMINE ; CAS No. : 121-44-8)

Exposure route : Inhalation

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Exposure frequency :	Short-term (acute)
Limit value :	12,6 mg/m ³
Limit value type :	DNEL worker (systemic) (TRIETHYLAMINE ; CAS No. : 121-44-8)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	12,1 mg/kg
Safety factor :	24
Limit value type :	DNEL Consumer (local) (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	43 µg/m ³
Limit value type :	DNEL Consumer (systemic) (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	64,9 µg/l
Safety factor :	50
Limit value type :	DNEL worker (local) (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	273,2 µg/m ³
Limit value type :	DNEL Consumer (local) (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	2 mg/m ³
Safety factor :	5
Limit value type :	DNEL Consumer (systemic) (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	2,7 mg/m ³
Safety factor :	5
Limit value type :	DNEL Consumer (systemic) (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	0,78 mg/kg
Safety factor :	5
Limit value type :	DNEL Consumer (systemic) (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Exposure route :	Dermal
Exposure frequency :	Short-term (acute)
Limit value :	1,5 mg/kg
Safety factor :	12
Limit value type :	DNEL worker (local) (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	3,33 mg/m ³
Safety factor :	3
Limit value type :	DNEL worker (systemic) (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	9 mg/m ³
Safety factor :	3
Limit value type :	DNEL worker (systemic) (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)

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Limit value: 1,3 mg/kg
 Safety factor: 3
 Limit value type: DNEL worker (systemic) (2-BUTANONE OXIME ; CASNo. : 96-29-7)
 Exposure route: Dermal
 Exposure frequency: Short-term (acute)
 Limit value: 2,5 mg/kg
 Safety factor: 72

PNEC

Limit value type: PNEC aquatic, freshwater (TRIETHYLAMINE ; CAS No. : 121-44-8)
 Limit value: 0,11 mg/l
 Safety factor: 10
 Limit value type: PNEC aquatic, intermittent release (TRIETHYLAMINE ; CAS No. : 121-44-8)
 Limit value: 0,08 mg/l
 Safety factor: 100
 Limit value type: PNEC aquatic, marine water (TRIETHYLAMINE ; CASNo. : 121-44-8)
 Limit value: 0,011 mg/l
 Safety factor: 100
 Limit value type: PNEC sediment, freshwater (TRIETHYLAMINE ; CASNo. : 121-44-8)
 Limit value: 1575 mg/kg
 Limit value type: PNEC sediment, marine water (TRIETHYLAMINE ; CAS No. : 121-44-8)
 Limit value: 0,158 mg/kg
 Limit value type: PNEC sewage treatment plant (STP) (TRIETHYLAMINE ; CAS No. : 121-44-8)
 Limit value: 100 mg/l
 Safety factor: 10
 Limit value type: PNEC aquatic, freshwater (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
 Exposure route: Water (Including sewage plant)
 Limit value: 0,6 µg/l
 Safety factor: 3
 Limit value type: PNEC aquatic, marine water (NEODECANOIC ACID, COBALT SALT ; CASNo. : 27253-31-2)
 Exposure route: Water (Including sewage plant)
 Limit value: 2,36 µg/l
 Safety factor: 3
 Limit value type: PNEC sediment, freshwater (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
 Exposure route: Water (Including sewage plant)
 Limit value: 9,5 mg/kg
 Safety factor: 3
 Limit value type: PNEC sediment, marine water (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
 Exposure route: Water (Including sewage plant)
 Limit value: 9,5 mg/kg
 Safety factor: 3
 Limit value type: PNEC soil, freshwater (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
 Limit value: 10,9 mg/kg
 Safety factor: 2
 Limit value type: PNEC sewage treatment plant (STP) (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
 Exposure route: Water (Including sewage plant)
 Limit value: 0,37 mg/l
 Safety factor: 10
 Limit value type: PNEC aquatic, freshwater (2-BUTANONE OXIME ; CAS No. : 96-29-7)
 Limit value: 0,256 mg/l
 Safety factor: 10

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Limit value type: PNEC aquatic, intermittent release (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Limit value: 0,118 mg/l
Safety factor: 100
Limit value type: PNEC sewage treatment plant (STP) (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Limit value: 177 mg/l
Safety factor: 1

8.2 Exposure controls

Appropriate engineering controls

Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Personal protection equipment

Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Eye/face protection

Suitable eye protection

Use tightly fitting safety glasses.

Skin protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

Hand protection

Wear suitable gloves tested to EN374. Breakthrough time (maximum wearing time)

Suitable gloves type : Disposable gloves.

Suitable material : NR (natural rubber, natural latex)

Required properties : liquid-tight.

Breakthrough time (maximum wearing time) : > 60 min

Thickness of the glove material : > 0,5 mm

Recommended glove articles : DIN EN 374

Body protection

Suitable protective clothing : Overall

Recommended material : Natural fibres (e.g. cotton)

Respiratory protection

Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 15 times the exposure limit. P3 filter: up to a max. of

Consumer exposure controls

Measures related to consumer uses of the substance (as such or in preparations)

Do not allow to enter ground-water, surface water or drains, even not in small quantities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Safety relevant basis data

Physical state :	liquid
Solidifying point :	(1013 hPa) °C
Melting point/melting range :	(1013 hPa) °C
Freezing point :	°C
Initial boiling point and boiling range :	(1013 hPa) °C
Decomposition temperature :	(1013 hPa) °C

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Flash point :	>	100	°C	
Ignition temperature :			°C	
Lower explosion limit :			Vol-%	
Upper explosion limit :			Vol-%	
Relative density :	(20 °C)		(Water = 1)	
Fat solubility :	(20 °C)		Wt %	
PH :				
log P O/W :				
Odour threshold :			mg/m ³	
Evaporation rate :			(Ether = 1)	
Certificate number :				
Colour :				
Odour :				
Solid content :		ca.	33	Wt %
Density :	(20 °C)	ca.	1	g/cm ³
Flow time :	(20 °C)		s	DIN-cup 4 mm
Flow time :	(20 °C)		s	ISO cup 4 mm
Flow time :	(20 °C)		s	ISO cup 6 mm
Viscosity :	(20 °C)		mPa.s	NEN-ISO 2884
Viscosity :	(20 °C)	ca.	3	dPa.s Rotothinner

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

10.3 Possibility of hazardous reactions

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4 Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (TRIETHYLAMINE ; CAS No. : 121-44-8)
Exposure route :	Oral
Species :	Rat
Effective dose :	460 mg/kg
Parameter :	LD50 (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Exposure route :	Oral
Species :	Rat

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Effective dose : 1098 mg/kg
Parameter : LD50 (2-BUTANONEOXIME ; CAS No. : 96-29-7)
Exposure route : Oral
Species : Rat
Effective dose : 2326 mg/kg
Method : OECD 401

Acute dermal toxicity

Parameter : LD50 (TRIETHYLAMINE ; CAS No. : 121-44-8)
Exposure route : Dermal
Species : Rabbit
Effective dose : 570 mg/kg
Parameter : LD50 (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg
Parameter : LD50 (2-BUTANONEOXIME ; CAS No. : 96-29-7)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 1000 mg/kg
Exposure time : 24 h
Method : OECD 402

Acute inhalation toxicity

Parameter : LC50 (TRIETHYLAMINE ; CAS No. : 121-44-8)
Exposure route : Inhalation
Species : Rat
Effective dose : 3496 ppm
Exposure time : 1 h
Parameter : LD50 (2-BUTANONEOXIME ; CAS No. : 96-29-7)
Exposure route : Inhalation
Species : Rat
Effective dose : > 4,83 mg/l
Exposure time : 4 h
Method : OECD 403

SECTION 12: Ecological information

Avoid release to the environment. Refer to special instructions / safety data sheet.

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (TRIETHYLAMINE ; CAS No. : 121-44-8)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 38 mg/l
Exposure time : 96 h

Chronic (long-term) fish toxicity

Parameter : LOEC (TRIETHYLAMINE ; CAS No. : 121-44-8)
Species : Brachydanio rerio (zebra-fish)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : 320 mg/l
Exposure time : 168 h

Chronic (long-term) daphnia toxicity

Parameter : NOEC (TRIETHYLAMINE ; CAS No. : 121-44-8)

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Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 11 mg/l
Exposure time : 1 month

Acute (short-term) algae toxicity

Parameter : Acute (short-term) algae toxicity (TRIETHYLAMINE ; CASNo. : 121-44-8)
Species : Scenedesmus quadricauda
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 1000 µg/l
Exposure time : 96 h

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Avoid release to the environment. Refer to special instructions / safety data sheet. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

SECTION 14: Transport information

14.1 UN number

No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

14.4 Packing group

No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

EU legislation

EU limit value for this product (cat. A/e): 130 g/l (2010).

Other regulations (EU)

Information according to 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

VOC-value: 15,7 g/l

National regulations

GEEN / ZEER WEINIG OPLOSMIDDEL. VOLDOET VOOR PROFESSIONEEL GEBRUIK BINNEN AAN ARBO. Vos gehalte Arbo Nederland: Groep A: < 100 gram VOS per liter.

15.2 Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 02. Labelling (67/548/EEC or 1999/45/EC) · 03. Hazardous ingredients · 08. Occupational exposure limit values

16.2 Abbreviations and acronyms

a.i. = Active ingredient
ACGIH = American Conference of Governmental Industrial Hygienists (US)
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road
AFFF = Aqueous Film Forming Foam
AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC)
AOAC = AOAC International (formerly Association of Official Analytical Chemists)
aq. = Aqueous
ASTM = American Society of Testing and Materials (US)
atm = Atmosphere(s)
B.V. = Beperkt Vennootschap (Limited)
BCF = Bioconcentration Factor
bp = Boiling point at stated pressure
bw = Body weight
ca = (Circa) about
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)
CEFIC = European Chemical Industry Council (established 1972)
CIPAC = Collaborative International Pesticides Analytical Council
CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
Conc = Concentration
cP = CentiPoise
cSt = Centistokes
d = Day(s)
DIN = Deutsches Institut für Normung e.V.
DNEL = Derived No-Effect Level
DT50 = Time for 50% loss; half-life
EbC50 = Median effective concentration (biomass, e.g. of algae)
EC = European Community; European Commission
EC50 = Median effective concentration
EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number)
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)
ErC50 = Median effective concentration (growth rate, e.g. of algae)
EU = European Union
EWC = European Waste Catalogue

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FAO = Food and Agriculture Organization (United Nations)
GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International)
h = Hour(s)
hPa = HectoPascal (unit of pressure)
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IC50 = Concentration that produces 50% inhibition
IMDG Code = International Maritime Dangerous Goods Code
IMO = International Maritime Organization
ISO = International Organization for Standardization
IUCLID = International Uniform Chemical Information Database
IUPAC = International Union of Pure and Applied Chemistry
kg = Kilogram
Kow = Distribution coefficient between n-octanol and water
kPa = KiloPascal (unit of pressure)
LC50 = Concentration required to kill 50% of test organisms
LD50 = Dose required to kill 50% of test organisms
LEL = Lower Explosive Limit/Lower Explosion Limit
LOAEL = Lowest observed adverse effect level
mg = Milligram
min = Minute(s)
ml = Milliliter
mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa)
mp = Melting point
MRL = Maximum Residue Limit
MSDS = Material Safety Data Sheet
n.o.s. = Not Otherwise Specified
NIOSH = National Institute for Occupational Safety and Health (US)
NOAEL = No Observed Adverse Effect Level
NOEC = No observed effect concentration
NOEL = No Observable Effect Level
NOx = Oxides of Nitrogen
OECD = Organization for Economic Cooperation and Development
OEL = Occupational Exposure Limits
Pa = Pascal (unit of pressure)
PBT = Persistent, Bioaccumulative or Toxic
pH = -log₁₀ hydrogen ion concentration
pKa = -log₁₀ acid dissociation constant
PNEC = Previsible Non Effect Concentration
POPs = Persistent Organic Pollutants
ppb = Parts per billion
PPE = Personal Protection Equipment
ppm = Parts per million
ppt = Parts per trillion
PVC = Polyvinyl Chloride
QSAR = Quantitative Structure-Activity Relationship
REACH = Registration, Evaluation and Authorization of Chemicals (EU, see NCP)
SI = International System of Units
STEL = Short-Term Exposure Limit
tech. = Technical grade
TSCA = Toxic Substances Control Act (US)
TWA = Time-Weighted Average
vPvB = Very Persistent and Very Bioaccumulative
WHO = World Health Organization = OMS
y = Year(s)

16.3 Key literature references and sources for data

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None

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

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effects.
R11	Highly flammable.
R21	Harmful in contact with skin.
R22	Harmful if swallowed.
R23/24	Toxic by inhalation and in contact with skin.
R35	Causes severe burns.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.

16.6 Training advice

None

16.7 Additional information

None

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.