

Safety Data Sheet

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

Trade name : A-Clean 355
Revision date : 21-06-2019
Print date : 27-06-2019

Version (Revision) : 5.0.0 (4.0.0)

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

1.1 Product identifier

A-Clean 355

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

Relevant identified uses

PC 35 - Washing and cleaning products

Sector of uses [SU]

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Process categories [PROC]

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 11 - Non industrial spraying

PROC 19 - Manual activities involving hand contact

Environmental release categories [ERC]

ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

Uses advised against

This product should not be used for purposes other than the applications referred to above.

1.3 Details of the supplier of the safety data sheet

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

Qlean-tec BV

Street : Lireweg 12

Postal code/city : 2153 PH Nieuwe-Vennep

Telephone : +31 (0)297-274390

Telefax : +31 (0)297-272442

Information contact : SHE Department

Website : www.qleantec.com

E-mail (competent person) : marketing@qleantec.com

1.4 Emergency telephone number

Only for the purpose of informing medical personnel in case of acute intoxication:

The Netherlands: NVIC 030 - 274 88 88)

Belgium: Antigifcentrum 070 – 245 245

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Skin Corr. 1A ; H314 - Skin corrosion/irritation : Category 1A ; Causes severe skin burns and eye damage.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

2.2 Label elements

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

Hazard pictograms



Corrosion (GHS05)

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Signal word

Danger

Hazard components for labelling

POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3
SODIUMMETASILICATE ; CAS No. : 10213-79-3
POTASSIUM DODECYL BENZENE SULFONATE ; CAS No. : 27177-77-1

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe mist/vapours.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P310 Immediately call a POISON CENTER/doctor.

Remark

The product is classified and labelled according to EC directives or corresponding national laws.

2.3 Other hazards

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

2.4 Additional information

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

POTASSIUM HYDROXIDE ; REACH registration No. : 01-2119487136-33 ; EC No. : 215-181-3; CAS No. : 1310-58-3

Weight fraction : $\geq 2,5 - < 5$ %
Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

2-BUTOXYETHANOL ; REACH registration No. : 01-2119475108-36 ; EC No. : 203-905-0; CAS No. : 111-76-2

Weight fraction : $\geq 2,5 - < 10$ %
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

SODIUMMETASILICATE ; REACH registration No. : 01-2119449811-37 ; EC No. : 229-912-9; CAS No. : 10213-79-3

Weight fraction : $\geq 2,5 - < 3$ %
Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 STOT SE 3 ; H335

POTASSIUM DODECYL BENZENE SULFONATE ; CAS No. : 27177-77-1

Weight fraction : $\geq 1 - < 2,5$ %
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315

NATRIUM CUMEENSULFONAAAT ; REACH registration No. : 01-2119489411-37 ; EC No. : 248-983-7; CAS No. : 28348-53-0

Weight fraction : $< 2,5$ %
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

Additional information

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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General information

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

No special measures are necessary.

In case of skin contact

Change contaminated, saturated clothing. Wash contaminated clothing prior to re-use.

After eye contact

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

After ingestion

Call a physician in any case! Do NOT induce vomiting. If major quantity of dust is swallowed or inhaled, immediately drink: Water

4.2 Most important symptoms and effects, both acute and delayed

The following symptoms may occur: No known symptoms to date.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water mist Foam Extinguishing powder Carbon dioxide (CO₂)

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

5.4 Additional information

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

6.3 Methods and material for containment and cleaning up

For containment

Collect in closed and suitable containers for disposal. Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Suitable material for taking up: Sand Absorbing material, organic

6.4 Reference to other sections

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See protective measures under point 7 and 8.

SECTION 7: Handling and storage



7.1 Precautions for safe handling

None

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep/Store only in original container. Suitable container/equipment material: Stainless steel Polyethylene (PE)

Hints on joint storage

Storage class (TRGS 510) : 8B

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 10 ppm / 49 mg/m³

Peak limitation : 4(II)

Remark : H,Y

Version : 07-06-2018

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

Limit value : 50 ppm / 246 mg/m³

Remark : H

Version : 31-01-2018

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

Limit value : 20 ppm / 98 mg/m³

Remark : H

Version : 31-01-2018

Biological limit values

2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 903 (D)

Parameter : Butoxy acetic acid / Urine (U) / At long term exposure: after several previous shifts

Limit value : 100 mg/l

Version : 07-06-2018

Limit value type (country of origin) : TRGS 903 (D)

Parameter : Butoxy acetic acid / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts

Limit value : 150 mg/g Kr

Version : 07-06-2018

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL Consumer (local) (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)

Exposure route : Inhalation

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Exposure frequency : Long-term (repeated)
Limit value : 1 mg/m³
Limit value type : DNEL worker (local) (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 1 mg/m³
Limit value type : DNEL Consumer (local) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 147 mg/m³
Limit value type : DNEL Consumer (systemic) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Short-term (acute)
Limit value : 89 mg/kg
Safety factor : day(s)
Limit value type : DNEL Consumer (systemic) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 426 mg/m³
Limit value type : DNEL Consumer (systemic) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Oral
Exposure frequency : Short-term (acute)
Limit value : 26,7 mg/kg
Safety factor : day(s)
Limit value type : DNEL Consumer (systemic) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 75 mg/kg
Safety factor : day(s)
Limit value type : DNEL Consumer (systemic) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 59 mg/m³
Limit value type : DNEL Consumer (systemic) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 6,3 mg/kg
Safety factor : day(s)
Limit value type : DNEL worker (systemic) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Short-term (acute)
Limit value : 89 mg/kg
Safety factor : day(s)
Limit value type : DNEL worker (systemic) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 1091 mg/m³
Limit value type : DNEL worker (systemic) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 98 mg/m³
Limit value type : DNEL worker (systemic) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 125 mg/kg

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Safety factor : day(s)
Limit value type : DNEL Consumer (systemic) (SODIUMMETASILICATE ; CAS No. : 10213-79-3)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 0,74 mg/kg
Limit value type : DNEL Consumer (systemic) (SODIUMMETASILICATE ; CAS No. : 10213-79-3)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 1,55 mg/m³
Limit value type : DNEL Consumer (systemic) (SODIUMMETASILICATE ; CAS No. : 10213-79-3)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 0,74 mg/kg
Limit value type : DNEL worker (systemic) (SODIUMMETASILICATE ; CAS No. : 10213-79-3)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 6,22 mg/m³
Limit value type : DNEL worker (systemic) (SODIUMMETASILICATE ; CAS No. : 10213-79-3)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 1,49 mg/kg

PNEC

Limit value type : PNEC (Aquatic, freshwater) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Water (Including sewage plant)
Limit value : 8,8 mg/l
Limit value type : PNEC (Aquatic, marine water) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Water (Including sewage plant)
Limit value : 0,88 mg/l
Limit value type : PNEC (Sediment, freshwater) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Soil
Limit value : 34,6 mg/kg dw
Limit value type : PNEC (Sediment, marine water) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Soil
Limit value : 3,46 mg/kg dw
Limit value type : PNEC (Soil) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Soil
Limit value : 2,33 mg/kg dw
Limit value type : PNEC (Sewage treatment plant) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Water (Including sewage plant)
Limit value : 463 mg/l
Limit value type : PNEC (Aquatic, freshwater) (SODIUMMETASILICATE ; CAS No. : 10213-79-3)
Exposure route : Water (Including sewage plant)
Limit value : 7,5 mg/l
Limit value type : PNEC (Aquatic, marine water) (SODIUMMETASILICATE ; CAS No. : 10213-79-3)
Exposure route : Water (Including sewage plant)
Limit value : 1 mg/l
Limit value type : PNEC (Sewage treatment plant) (SODIUMMETASILICATE ; CAS No. : 10213-79-3)
Exposure route : Water (Including sewage plant)
Limit value : 1000 mg/l

8.2 Exposure controls

Personal protection equipment

Skin protection

Hand protection Suitable gloves type EN ISO 374 Butyl caoutchouc (butyl rubber) NBR (Nitrile rubber) Required properties liquid-tight. Breakthrough time (maximum wearing time) Permeation time (maximum wear time) Thickness of the glove material Nitril: 0,12 mm Butyl: 0,50 mm

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General health and safety measures

Immediately remove any contaminated clothing, shoes or stockings. Wash contaminated clothing prior to re-use.

Environmental exposure controls

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Colour : light yellow

Odour : characteristic

Safety relevant basis data

Physical state :			Liquid
Melting point/melting range :			No data available
Initial boiling point and boiling range :	(1013 hPa)	>	100 °C
Decomposition temperature :		>	200 °C
Freezing point :			No data available
Flash point :			not applicable
Auto-ignition temperature :			not applicable
Lower explosion limit :			not applicable
Upper explosion limit :			not applicable
Vapour Pressure :	(20 °C)		No data available
Evaporation rate (n-butylacetate = 1) :			No data available
Density :	(20 °C)	approx.	1 g/cm ³
Water solubility :	(20 °C)		100 Wt %
pH :			13
Partition coefficient (n-octanol/water) :		<	3
Viscosity :	(20 °C)	<	10 mPa.s
Vapour density (air = 1) :	(101 kPa)		No data available
Valt onder Detergentia Verordening (EG) Nr. 648/2004 J/N			yes

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

not applicable

10.2 Chemical stability

Stable under normal conditions of use

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Strong oxidizers

10.6 Hazardous decomposition products

No information available.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter : LD50 (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Exposure route : Oral
Species : Rat
Effective dose : 365 mg/kg

Parameter : LD50 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Oral
Species : Rat
Effective dose : 1480 mg/kg

Acute inhalation toxicity

Parameter : LC50 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Inhalation
Species : Rat
Effective dose : 500 ppm

Parameter : LC50 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Inhalation
Species : Mouse
Effective dose : 700 ppm

Irritant and corrosive effects

Primary irritation to the skin

Not an irritant.

Irritation to eyes

Not an irritant.

Irritation to respiratory tract

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

STOT-single exposure

not applicable

SECTION 12: Ecological information

12.1 Toxicity

harmless to aquatic organisms up to the tested concentration

12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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12.6 Other adverse effects

None

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Delivery to an approved waste disposal company. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

UN 1760

14.2 UN proper shipping name

Land transport (ADR/RID)

CORROSIVE LIQUID, N.O.S. (POTASSIUM HYDROXIDE · SODIUMMETASILICATE)

Sea transport (IMDG)

CORROSIVE LIQUID, N.O.S. (POTASSIUM HYDROXIDE · SODIUMMETASILICATE)

Air transport (ICAO-TI / IATA-DGR)

CORROSIVE LIQUID, N.O.S. (POTASSIUM HYDROXIDE · SODIUMMETASILICATE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 8
Classification code : C9
Hazard identification number (Kemler No.) : 80
Tunnel restriction code : E
Special provisions : LQ 5 I · E 1
Hazard label(s) :



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Sea transport (IMDG)

Class(es) : 8
EmS-No. : F-A / S-B
Special provisions : LQ 5 I · E 1 · IMDG-Code segregation group 18 - Alkalis
Hazard label(s) :



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Air transport (ICAO-TI / IATA-DGR)

Class(es) : 8
Special provisions : E 1
Hazard label(s) :



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14.4 Packing group

III

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14.5 Environmental hazards

Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

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

not applicable

SECTION 15: Regulatory information

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

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Use restriction according to REACH annex XVII, no. : 3

Other regulations (EU)

Labelling for contents according to regulation (EC) No. 648/2004

phosphates	< 5	%
anionic surfactants	< 5	%

National regulations

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Water hazard class (WGK)

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

15.2 Chemical safety assessment

Chemical safety assessments for substances in this preparation were not carried out.

SECTION 16: Other information

16.1 Indication of changes

03. Hazardous ingredients · 07. Hints on joint storage - Storage class · 08. Occupational exposure limit values · 14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Sea transport (IMDG) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR) · 15. Restrictions on use · 15. Technische Anleitung Luft (TA-Luft) · 15. Water hazard class (WGK)

16.2 Abbreviations and acronyms

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road
ASTM = American Society of Testing and Materials (US)
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)
DNEL = Derived No-Effect Level
DT50 = Time for 50% loss; half-life
EbC50 = Median effective concentration (biomass, e.g. of algae)
EC50 = Median effective concentration
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)
ErC50 = Median effective concentration (growth rate, e.g. of algae)
EWC = European Waste Catalogue
IATA = International Air Transport Association
IC50 = Concentration that produces 50% inhibition
IMDG = International Maritime Dangerous Goods Code

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IMO = International Maritime Organization
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
MRL = Maximum Residue Limit
NOAEL = No Observed Adverse Effect Level
NOEC = No observed effect concentration
NOEL = No Observable Effect Level
OEL = Occupational Exposure Limits
PBT = Persistent, Bioaccumulative or Toxic
PNEC = Previsible Non Effect Concentration
STEL = Short-Term Exposure Limit
TWA = Time-Weighted Average
vPvB = Very Persistent and Very Bioaccumulative

16.3 Key literature references and sources for data

None

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

No information available.

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

16.6 Training advice

None

16.7 Additional information

Article No.: 500633042085

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.
