

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Issue date: 11/01/2018

Revision date: 11/01/2019

Supersedes version of: 11/01/2018

Version: 1.1

n-Butyric Acid (Butanoic Acid)

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

1.1. Product identifier

Product form	: Substance
Trade name	: n-Butyric Acid (Butanoic Acid)
Chemical name	:
IUPAC name	:
EC Index-No.	: 607-135-00-X
EC-No.	: 203-532-3
CAS-No.	: 107-92-6
REACH registration No	: 01-2119488986-11
Product code	: I-10.811.44serie
Type of product	: Pure substance
Formula	: C ₄ H ₈ O ₂
Synonyms	: 1-propanecarboxylic acid / butanic acid / butanoic acid, n- / butanoic-acid- / butyrate / butyric acid / carboxylic acid C4 / ethylacetic acid / FEMA number 2221 / n-butanoic acid / n-butyric acid / normal-butanoic acid / normal-butyric acid / propane carboxylic acid / propylformic acid
BIG No	: 10252

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

1.2.1. Relevant identified uses

Main use category	: Laboratory chemicals, Research, Creation of substances, Professional use
Use of the substance/mixture	: Solvent Chemical raw material Food industry: component

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Antonides CV
Beukenlaan 3
8536TK Oosterzee - Nederland
T +31881885500
info@antonides.com - www.antonides.com

1.4. Emergency telephone number

Emergency number : 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1, Sub-Category 1B	H314
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) :

P233 - Keep container tightly closed.
P260 - Do not breathe dust, fume, mist, gas, vapours.
P280 - Wear protective clothing/eye protection/face protection, Gloves.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.

EUH-statements

: EUH001 - Explosive when dry.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
butyric acid	(CAS-No.) 107-92-6 (EC-No.) 203-532-3 (EC Index-No.) 607-135-00-X (REACH-no) 01-2119488986-11	≤ 100	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

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First-aid measures after skin contact	: Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents without medical advice. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist.
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not apply (chemical) neutralizing agents without medical advice. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.html). Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital.

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

Symptoms/effects after inhalation	: Dry/sore throat. Coughing. EXPOSURE TO HIGH CONCENTRATIONS: Respiratory difficulties. FOLLOWING SYMPTOMS MAY APPEAR LATER: Possible laryngeal spasm/oedema. Risk of lung oedema.
Symptoms/effects after skin contact	: Caustic burns/corrosion of the skin.
Symptoms/effects after eye contact	: Corrosion of the eye tissue.
Symptoms/effects after ingestion	: Gastrointestinal complaints.
Chronic symptoms	: Red skin. Dry skin. Itching. Skin rash/inflammation.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: water spray. Dry chemical, CO ₂ , dry sand, or alcohol-resistant foam.
Unsuitable extinguishing media	: Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: DIRECT FIRE HAZARD: Material presenting a fire hazard. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard. Reactions involving a fire hazard: see "Reactivity Hazard".
Explosion hazard	: INDIRECT EXPLOSION HAZARD: Reactions with explosion hazards: see "Reactivity Hazard".
Hazardous decomposition products in case of fire	: Upon combustion: CO and CO ₂ are formed.

5.3. Advice for firefighters

Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.
Protection during firefighting	: Heat/fire exposure: compressed air apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Gloves (EN 374). Face shield (EN 166). Corrosion-proof suit (EN 14605). Large spills/in enclosed spaces: compressed air apparatus (EN 136 + EN 137). Large spills/in enclosed spaces: gas-tight suit (EN 943).
Emergency procedures	: Mark the danger area. No naked flames. Wash contaminated clothes. Large spills/in confined spaces: consider evacuation. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.

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6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Hazardous reaction: measure explosive gas-air mixture. Reaction: dilute combustible gas/vapour with water curtain. Heat exposure: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water.

Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite dry powdered limestone or soda ash. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use earthed equipment. Keep away from naked flames/heat. At temperature > flashpoint: use spark-/explosionproof appliances. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Use corrosionproof equipment. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep container tightly closed.

Hygiene measures : Observe strict hygiene.

7.2. Conditions for safe storage, including any incompatibilities

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: combustible materials. oxidizing agents. (strong) bases. amines.

Storage area : Ventilation at floor level. Keep locked up. Provide for a tub to collect spills. Unauthorized persons are not admitted. Under a shelter/in the open. Detached building. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: polyethylene. glass. stainless steel. aluminium. copper. bronze. MATERIAL TO AVOID: steel. lead. iron. zinc.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

n-Butyric Acid (Butanoic Acid) (107-92-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2.67 mg/kg bw/day
Long-term - systemic effects, inhalation	36.8 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.66 mg/kg bw/day

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n-Butyric Acid (Butanoic Acid) (107-92-6)	
Long-term - systemic effects, inhalation	9.15 mg/m ³
Long-term - systemic effects, dermal	0.66 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	0.045 mg/l
PNEC aqua (marine water)	0.004 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.368 mg/kg dwt
PNEC sediment (marine water)	0.037 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.047 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	51 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Use in accordance with current rules and practices with regard to industrial hygiene and safety. Wash hands at work breaks and at the end of the workday. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: butyl rubber, viton. GIVE GOOD RESISTANCE: nitrile rubber. GIVE LESS RESISTANCE: neoprene. GIVE POOR RESISTANCE: PVC, natural rubber

Hand protection:

protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Butyl rubber	6 (> 480 minutes)	0.3		EN ISO 374
Disposable gloves	Chloroprene rubber (CR), Latex	2 (> 30 minutes)	0.6		EN ISO 374

Eye protection:

Chemical goggles or safety glasses

Type	Use	Characteristics	Standard
Safety glasses		tight fitting	EN 166

Skin and body protection:

Complete suit for protection against chemicals. Corrosion-proof clothing

Respiratory protection:

Respiratory protection only during aerosol or mist formation

Device	Filter type	Condition	Standard
Full face mask	ABEK	where respiratory risks occur	EN 14387
Oxygen mask		If the face mask is the only means of protection	EN 14387

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Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 88.11 g/mol
Colour	: Colourless.
Odour	: Irritating/pungent odour. Unpleasant odour.
Odour threshold	: No data available
pH	: 2 (50 %, 25 °C, DIN 19268)
Relative evaporation rate (butylacetate=1)	: < 1
Melting point	: -7 °C (ASTM D97: Pour Point of Petroleum Products)
Freezing point	: No data available
Boiling point	: 164 °C (1013 hPa, Equivalent or similar to OECD 103)
Flash point	: 71 °C (Closed cup, 1013 hPa, ISO 2719: Flash point (Pensky-Martens))
Critical temperature	: 355 °C
Auto-ignition temperature	: 435 °C (1008 hPa, EU Method A.15: Auto-ignition Temperature (liquids and gases))
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 1 hPa (20 °C, EN 13016-1: Liquid petroleum products – Vapour pressure)
Vapour pressure at 50 °C	: 7 hPa
Critical pressure	: 52676 hPa
Relative vapour density at 20 °C	: 3.04
Relative density	: 0.96 (20 °C, DIN 51757: Testing of mineral oils and related materials - Determination of density)
Relative density of saturated gas/air mixture	: 1
Density	: 957.4 kg/m ³ (20 °C)
Solubility	: Soluble in water. Soluble in ethanol. Soluble in ether. Water: > 50 g/100ml (20 °C, Equivalent or similar to OECD 105: Water Solubility) Ethanol: complete Ether: complete
Partition coefficient n-octanol/water (Log Pow)	: 1.1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Viscosity, kinematic	: 1.74 mm ² /s
Viscosity, dynamic	: 1.666 mPa·s (20 °C, Equivalent or similar to DIN 51562)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

Specific conductivity	: < 1 µS/m
Saturation concentration	: 3 g/m ³
VOC content	: 100 %
Other properties	: Gas/vapour heavier than air at 20°C. Clear. Slightly volatile. Acid reaction.

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Violent exothermic reaction with (some) bases.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

n-Butyric Acid (Butanoic Acid) (107-92-6)

LD50 oral rat	1632 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	6096 mg/kg bodyweight (Equivalent or similar to OECD 402, 14 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	> 5.1 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 7 day(s))

Skin corrosion/irritation : Causes severe skin burns.

pH: 2 (50 %, 25 °C, DIN 19268)

Serious eye damage/irritation : Assumed to cause serious eye damage

pH: 2 (50 %, 25 °C, DIN 19268)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

n-Butyric Acid (Butanoic Acid) (107-92-6)

Viscosity, kinematic	1.74 mm ² /s
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Potential adverse human health effects and symptoms : Causes severe skin burns. Non-toxic in contact with skin (LD50 skin > 5000 mg/kg). Slightly harmful by inhalation. Causes serious eye damage.

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
Ecology - air	: Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Harmful to crustacea. Harmful to fishes. Groundwater pollutant. Harmful to algae. Harmful to bacteria. pH shift.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

n-Butyric Acid (Butanoic Acid) (107-92-6)

LC50 fish 1	77 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 Daphnia 1	51.25 mg/l (DIN 38412-11, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h algae (1)	45.1 mg/l (DIN 38412-9, Desmodesmus subspicatus, Static system, Fresh water, Read-across, Biomass)

12.2. Persistence and degradability

n-Butyric Acid (Butanoic Acid) (107-92-6)

Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Chemical oxygen demand (COD)	1.95 g O ₂ /g substance
ThOD	1.818 g O ₂ /g substance

12.3. Bioaccumulative potential

n-Butyric Acid (Butanoic Acid) (107-92-6)

BCF other aquatic organisms 1	3.162 (BCFBAF v3.00, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	1.1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

n-Butyric Acid (Butanoic Acid) (107-92-6)

Surface tension	68.5 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Partition coefficient n-octanol/water (Log Koc)	0.419 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Highly mobile in soil.

12.5. Results of PBT and vPvB assessment

n-Butyric Acid (Butanoic Acid) (107-92-6)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product/Packaging disposal recommendations : Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery.
- Additional information : Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.
- European List of Waste (LoW) code : 15 01 10* - packaging containing residues of or contaminated by dangerous substances
07 01 04* - other organic solvents, washing liquids and mother liquors

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

No supplementary information available

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

Not applicable

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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-Regulations

No REACH Annex XVII restrictions

n-Butyric Acid (Butanoic Acid) is not on the REACH Candidate List

n-Butyric Acid (Butanoic Acid) is not on the REACH Annex XIV List

n-Butyric Acid (Butanoic Acid) is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

n-Butyric Acid (Butanoic Acid) is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 100 %

15.1.2. National regulations

Germany

Regulatory reference : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 41)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

TA Luft : 5.2.5 Organic Substances. Class I

Netherlands

SZW list of carcinogens : The substance is not listed

SZW list of mutagenic substances : The substance is not listed

NON-limitative list of substances toxic to reproduction - Breastfeeding : The substance is not listed

NON-exhaustive list of substances toxic to reproduction - Fertility : The substance is not listed

NON-exhaustive list of substances toxic to reproduction - Development : The substance is not listed

Denmark

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
EUH001	Explosive when dry.

Interchema 2.0

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Disclaimer:

The contents of this material safety data sheet is composed with the utmost care from the currently available information from our suppliers. It is expected to be correct, but should be used exclusively as a guideline.

It describes the product in relation to the appropriate precautions. It cannot guarantee the properties of the product. Antonides C.V. will not be responsible for any damage, in any way, that could result from the use of this data.

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