

# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Issue date: 23-4-2021 Revision date: 23-4-2021 Supersedes version of: 2-11-2016 Version: 9.0

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

#### 1.1. Product identifier

Product form : Mixture  
Name : Super Tip-Top Exclusiva  
Product code : 3401.1\_44001RI80  
Type of product : Detergent  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : Industrial  
Professional  
A.I.S.E. Guidance on Detergents Safe Use Mixture Information (SUMI):  
<https://www.aise.eu/our-activities/regulatory-context/reach/safe-use-information-for-end-users.aspx>  
Use of the substance/mixture : The data given here is based on the product properties as mentioned in section 1.1. and is provided on the assumption, that the product will be used in the manner and for the purposes for which the manufacturer indicates.  
Use of the substance/mixture : Cleaner  
Acidic cleaner.  
Specific use  
Function or use category : Cleaning/washing agents and additives

Title	Use descriptors
Transfer of product to a container (bottle/bucket/machine) (Association ref code: AISE_SUMI_PW_8a_1_G)	SU22, PC35, PROC8a, ERC8a, AISE SPERC 8a.1.a.v2
Professional uses; (Trigger) spraying (Association ref code: AISE_SUMI_PW_11_2_G)	SU22, PC35, PROC11, ERC8a, AISE SPERC 8a.1.a.v2
Professional uses; Brushing after trigger spraying or brushing with tools (Association ref code: AISE_SUMI_PW_10_2_G)	SU22, PC35, PROC10, ERC8a, AISE SPERC 8a.1.a.v2

Full text of use descriptors: see section 16

##### 1.2.2. Uses advised against

No additional information available

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

Exclusiva Groothandel  
Schurenbergweg 6  
NL-1105 AR Amsterdam - Nederland  
T +31 (0) 204357777  
[Info@exclusiva.nl](mailto:Info@exclusiva.nl)

#### 1.4. Emergency telephone number

Emergency number : See Section 1.3; Only during office hours

# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 1, Sub-Category 1A H314

Serious eye damage/eye irritation, Category 1 H318

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Danger

Contains :

SULFURIC ACID; AMMONIUMBIFLUORIDE

Hazard statements (CLP) :

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) :

P102 - Keep out of reach of children.

P280 - Wear eye protection, protective gloves, protective clothing.

P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor.

P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a POISON CENTER or doctor.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Extra phrases :

First aid measures: In case of skin contact, wearing rubber gloves rub 2.5% calcium gluconate gel continuously into the affected area for 1.5 hours or until further medical care is available.

Intended for general public

Child-resistant fastening

: Applicable

Tactile warning

: Applicable

# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 2.3. Other hazards

Other hazards which do not result in classification : No supplementary information available. The information in this section applies to the undiluted product.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sulphuric acid (INCI: SULFURIC ACID) substance with national workplace exposure limit(s) (GB, IE); substance with a Community workplace exposure limit	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8	10 – 20	Skin Corr. 1A, H314
Fatty alcohol ethoxylate (INCI: C9-11 Pareth-(6-8))	(CAS-No.) 160875-66-1 (EC-No.) Polymer	1 – 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Ammonium bifluoride (INCI: AMMONIUMBIFLUORIDE)	(CAS-No.) 1341-49-7 (EC-No.) 215-676-4 (EC Index-No.) 009-009-00-4 (REACH-no) 01-2119489180-38	1 – 5	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314
2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) substance with national workplace exposure limit(s) (GB, IE)	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0 (REACH-no) 01-2119457558-25	0,1 – 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ammonium fluoride (INCI: AMMONIUM FLUORIDE)	(CAS-No.) 12125-01-8 (EC-No.) 235-185-9 (EC Index-No.) 009-006-00-8 (REACH-no) 01-2119980933-25	0,1 – 1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Sulphuric acid (INCI: SULFURIC ACID)	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8	( 5 ≤C < 15) Eye Irrit. 2, H319 ( 5 ≤C < 15) Skin Irrit. 2, H315 ( 15 ≤C < 100) Skin Corr. 1A, H314
Ammonium bifluoride (INCI: AMMONIUMBIFLUORIDE)	(CAS-No.) 1341-49-7 (EC-No.) 215-676-4 (EC Index-No.) 009-009-00-4 (REACH-no) 01-2119489180-38	( 0,1 ≤C < 1) Eye Irrit. 2, H319 ( 0,1 ≤C < 1) Skin Irrit. 2, H315 ( 1 ≤C < 100) Skin Corr. 1B, H314

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use. Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: Overexposure may result in : Soar throat. Cough. Shortness of breath. Difficulty in breathing.
Symptoms/effects after skin contact	: Burns. Redness, pain.
Symptoms/effects after eye contact	: Blurred vision. Burning sensation. Tears. Redness, pain. Causes serious eye damage.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

In case of skin contact, wearing rubber gloves rub 2.5% calcium gluconate gel continuously into the affected area for 1.5 hours or until further medical care is available. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Fire hazard	: Not combustible.
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### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

General measures	: Concerning personal protective equipment to use, see section 8. Material spilled on hard surface can present a serious slipping/falling hazard.
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#### 6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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#### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

### 6.2. Environmental precautions

Do not flush into surface water. Avoid release to the environment.

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

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Dispose of in accordance with relevant local regulations. Wash away remainder with plenty of water.
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### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Normal precautions for the use of chemicals and cleaners should be taken care of. See information supplied by the manufacturer. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
- Hygiene measures : Do not eat, drink or smoke when using this product.

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

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed. Protect from freezing.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

<b>Sulphuric acid (INCI: SULFURIC ACID) (7664-93-9)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Sulphuric acid (mist)
IOEL TWA	0,05 mg/m <sup>3</sup>
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Sulphuric acid
OEL TWA [2]	0,05 ppm
Notes (IE)	IOELV
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Sulphuric acid
WEL TWA (OEL TWA) [1]	0,05 mg/m <sup>3</sup> mist
Remark (WEL)	The mist is defined as the thoracic fraction
Regulatory reference	EH40. HSE

##### **2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (67-63-0)**

<b>Ireland - Occupational Exposure Limits</b>	
Local name	Isopropyl alcohol
OEL TWA [2]	200 ppm
OEL STEL [ppm]	400 ppm
Notes (IE)	Sk
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (67-63-0)

#### United Kingdom - Occupational Exposure Limits

Local name	Propan-2-ol
WEL TWA (OEL TWA) [1]	999 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	400 ppm
WEL STEL (OEL STEL)	1250 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	500 ppm
Regulatory reference	EH40. HSE

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

### Super Tip-Top Exclusiva

#### DNEL/DMEL (additional information)

See [http://www.dguv.de/ifa/de/gestis/limit\\_values/index.jsp](http://www.dguv.de/ifa/de/gestis/limit_values/index.jsp): Information on ingredients.

### Sulphuric acid (INCI: SULFURIC ACID) (7664-93-9)

#### DNEL/DMEL (Workers)

Acute - local effects, inhalation	0,1 mg/m <sup>3</sup>
Long-term - local effects, inhalation	0,05 mg/m <sup>3</sup>

#### PNEC (Water)

PNEC aqua (freshwater)	0,0025 mg/l
PNEC aqua (marine water)	0,00025 mg/l

#### PNEC (Sediment)

PNEC sediment (freshwater)	0,002 mg/kg dwt
PNEC sediment (marine water)	0,002 mg/kg dwt

#### PNEC (STP)

PNEC sewage treatment plant	8,8 mg/l
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### Ammonium bifluoride (INCI: AMMONIUMBIFLUORIDE) (1341-49-7)

#### DNEL/DMEL (Workers)

Acute - local effects, inhalation	3,8 mg/m <sup>3</sup>
Long-term - systemic effects, inhalation	2,3 mg/m <sup>3</sup>

#### DNEL/DMEL (General population)

Acute - systemic effects, oral	0,015 mg/kg bodyweight
Long-term - systemic effects, inhalation	0,045 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,015 mg/kg bodyweight/day

#### PNEC (Water)

PNEC aqua (freshwater)	1,3 mg/l
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#### PNEC (Soil)

PNEC soil	22 mg/kg dwt
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# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

<b>PNEC (STP)</b>	
PNEC sewage treatment plant	76 mg/l

<b>2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (67-63-0)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	888 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	500 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	26 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	89 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	319 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	140,9 mg/l
PNEC aqua (marine water)	140,9 mg/l
PNEC aqua (intermittent, freshwater)	140,9 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	552 mg/kg dwt
PNEC sediment (marine water)	552 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	28 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	2251 mg/l

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No additional information available

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid contact with skin, eyes and clothing. Avoid all unnecessary exposure. Protect eyes, face and skin from liquid splashes. Gloves. Safety glasses. Protective clothing.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Wear eye/face protection. Safety glasses with side shields. Face shield. Standard. EN 166

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Hand protection:					
protective gloves. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Time of penetration is to be checked with the glove producer					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Butyl rubber, Neoprene rubber (HNBR), Viton® II	6 (> 480 minutes)	>0.35 mm (NBR); >0.7 mm (HNBR)		EN 374-3

### 8.2.2.3. Respiratory protection

Respiratory protection:
If mist is formed : Carry out operations in the open/under local exhaust/ventilation or with respiratory protection. Wear appropriate mask. Gas mask with filter type. Filter E (yellow)

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Other information:

Do not eat, drink or smoke during use. The information in this section applies to the undiluted product.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Green.
Odour	: Faint characteristic.
Odour threshold	: No data available
pH	: 2,2 – 2,6 (20°C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 60 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1,16 g/cm <sup>3</sup> (20°C)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: < 43,103 mm <sup>2</sup> /s
Viscosity, dynamic	: < 50 mPa·s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.



# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Not established.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Sulphuric acid (INCI: SULFURIC ACID) (7664-93-9)

LD50 oral rat	2140 mg/kg (OECD 401)
LD50 oral	2140 mg/kg bodyweight
LC50 Inhalation - Rat	0,375 mg/l/4h (OECD 403)
LC50 Inhalation - Rat (Dust/Mist)	375 mg/l/4h
ATE CLP (oral)	2140 mg/kg bodyweight
ATE CLP (vapours)	0,375 mg/l/4h
ATE CLP (dust,mist)	5000 mg/m <sup>3</sup>

#### Fatty alcohol ethoxylate (INCI: C9-11 Pareth-(6-8)) (160875-66-1)

LD50 oral rat	> 500 mg/kg
ATE CLP (oral)	500 mg/kg bodyweight

#### Ammonium bifluoride (INCI: AMMONIUMBIFLUORIDE) (1341-49-7)

LD50 oral rat	100 – 147 mg/kg (OECD 401)
ATE CLP (oral)	100 mg/kg bodyweight

#### 2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (67-63-0)

LD50 oral rat	4750 – 5840 mg/kg
LD50 oral	4396 mg/kg bodyweight
LD50 dermal rabbit	> 2000 (≤ 13900) mg/kg
LD50 dermal	12800 mg/kg bodyweight
LC50 Inhalation - Rat	20 – 72,6 mg/l
LC50 Inhalation - Rat (Dust/Mist)	46600 mg/l/4h

# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

LC50 Inhalation - Rat (Vapours)	30 mg/l/4h
ATE CLP (oral)	4750 mg/kg bodyweight
ATE CLP (dermal)	13900 mg/kg bodyweight
ATE CLP (vapours)	20 mg/l/4h
ATE CLP (dust,mist)	20 mg/l/4h

### Ammonium fluoride (INCI: AMMONIUM FLUORIDE) (12125-01-8)

LD50 oral rat	200 – 2000 mg/kg (OECD 401)
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	1 mg/l/4h (OECD 403)
ATE CLP (oral)	200 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (dust,mist)	1 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns. pH: 2,2 – 2,6 (20°C)
Serious eye damage/irritation	: Causes serious eye damage. pH: 2,2 – 2,6 (20°C)
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met

### 2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (67-63-0)

STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

### Super Tip-Top Exclusiva

Viscosity, kinematic	< 43,103 mm <sup>2</sup> /s
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Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met, With the product as such no toxicological tests have been done. According to the criteria of art. 3 from (EC) Nr. 1272/2008 [CLP] this product is classified as mentioned in section 2. Components that are toxic are mentioned in section 3.
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# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: With the product as such no ecological tests have been done. According to the criteria of art. 3 from (EC) Nr. 1272/2008 [CLP] this product is classified concerning the environment as mentioned in section 2. Components that are dangerous to the environment are mentioned in section 3.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

<b>Sulphuric acid (INCI: SULFURIC ACID) (7664-93-9)</b>	
LC50 - Fish [1]	> 16 mg/l
LC50 - Fish [2]	16 – 28
EC50 - Other aquatic organisms [1]	> 100 mg/l EC50 waterflea (48 h)
EC50 - Other aquatic organisms [2]	> 100 mg/l IC50 alga (72 h) mg/l

<b>Fatty alcohol ethoxylate (INCI: C9-11 Pareth-(6-8)) (160875-66-1)</b>	
LC50 - Fish [1]	10 – 100 (96h, Oncorhynchus mykiss)
EC50 - Crustacea [1]	10 – 100 mg/l (48h)
EC50 72h - Algae [1]	10 – 100 mg/l (72h)

<b>Ammonium bifluoride (INCI: AMMONIUMBIFLUORIDE) (1341-49-7)</b>	
LC50 - Fish [1]	422 mg/l (Salmo gairdneri)
EC50 - Crustacea [1]	26 mg/l
EC50 96h - Algae [1]	43 mg/l (Scenedesmus subspicatus)
NOEC (chronic)	8,9 mg/l (Daphnia magna, 21 d)

<b>2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (67-63-0)</b>	
LC50 - Fish [1]	4200 – 9640 mg/l (96h, Pimephales promelas )
LC50 - Fish [2]	> 100 mg/l (Leuciscus idus)
EC50 - Crustacea [1]	> 1000 mg/l (24h)
EC50 - Crustacea [2]	9714 mg/l (24h, OECD 202)
EC50 - Other aquatic organisms [1]	> 100 mg/l (Daphnia magna, 48h)
EC50 - Other aquatic organisms [2]	> 1000 mg/l IC50 alga (72 h) mg/l
EC50 72h - Algae [1]	> 1000 (≤ 1800) mg/l (Scenedesmus subspicatus)
EC50 72h - Algae [2]	> 100 mg/l (Scenedesmus subspicatus)
LOEC (acute)	1000 mg/l (Algae, 8d)

<b>Ammonium fluoride (INCI: AMMONIUM FLUORIDE) (12125-01-8)</b>	
LC50 - Fish [1]	209 mg/l (Cyprinus caprio)
EC50 - Crustacea [1]	2,94 mg/l (OECD 202)
EC50 72h - Algae [1]	122 mg/l (Selenastrum capricornutum)
NOEC (chronic)	3,7 – 14,1 mg/l (Daphnia magna, 21 d)

# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 12.2. Persistence and degradability

#### Super Tip-Top Exclusiva

Persistence and degradability

Not established. The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

#### Fatty alcohol ethoxylate (INCI: C9-11 Pareth-(6-8)) (160875-66-1)

Biodegradation

> 60 % (28d, OECD301B, C.4-C; 648/2004)

### 12.3. Bioaccumulative potential

#### Super Tip-Top Exclusiva

Bioaccumulative potential

Not established.

#### Sulphuric acid (INCI: SULFURIC ACID) (7664-93-9)

Partition coefficient n-octanol/water (Log Kow)

1,92

#### Fatty alcohol ethoxylate (INCI: C9-11 Pareth-(6-8)) (160875-66-1)

Partition coefficient n-octanol/water (Log Pow)

0,3

Partition coefficient n-octanol/water (Log Kow)

0,3

#### Ammonium bifluoride (INCI: AMMONIUMBIFLUORIDE) (1341-49-7)

Partition coefficient n-octanol/water (Log Kow)

-4,37

#### 2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (67-63-0)

Partition coefficient n-octanol/water (Log Pow)

0,05

Partition coefficient n-octanol/water (Log Kow)

0,05

#### Ammonium fluoride (INCI: AMMONIUM FLUORIDE) (12125-01-8)

Partition coefficient n-octanol/water (Log Kow)

-4,37

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

# Super Tip-Top Exclusiva






## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Product/Packaging disposal recommendations	: This material and its container must be disposed of in a safe way, and as per local legislation. Product as it is : Chemical refuse, Dispose as hazardous waste. Empty containers can be dumped after cleaning according to local legislation. Recycling is preferred to disposal or incineration. Empty the packaging completely prior to disposal. Wash away remainder with plenty of water.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 20 01 29* - detergents containing dangerous substances

### SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN 3264	UN 3264	UN 3264	UN 3264	UN 3264
<b>14.2. UN proper shipping name</b>				
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	Corrosive liquid, acidic, inorganic, n.o.s.	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
<b>Transport document description</b>				
UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulphuric acid ; Ammonium bifluoride), 8, II, (E)	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulphuric acid ; Ammonium bifluoride), 8, II	UN 3264 Corrosive liquid, acidic, inorganic, n.o.s., 8, II	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, II	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, II
<b>14.3. Transport hazard class(es)</b>				
8	8	8	8	8
				
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

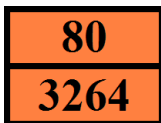
Classification code (ADR)	: C1
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T11
Portable tank and bulk container special provisions (ADR)	: TP2, TP27
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT

# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Transport category (ADR) : 2  
Hazard identification number (Kemler No.) : 80  
Orange plates :



Tunnel restriction code (ADR) : E  
EAC code : 2X  
APP code : B

### Transport by sea

Special provisions (IMDG) : 274  
Limited quantities (IMDG) : 1 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T11  
Tank special provisions (IMDG) : TP2, TP27  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-B  
Stowage category (IMDG) : B  
Stowage and handling (IMDG) : SW2  
MFAg-No : 154

### Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y840  
PCA limited quantity max net quantity (IATA) : 0.5L  
PCA packing instructions (IATA) : 851  
PCA max net quantity (IATA) : 1L  
CAO packing instructions (IATA) : 855  
CAO max net quantity (IATA) : 30L  
Special provisions (IATA) : A3  
ERG code (IATA) : 8L

### Inland waterway transport

Classification code (ADN) : C1  
Special provisions (ADN) : 274  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EP  
Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : C1  
Special provisions (RID) : 274  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02  
Mixed packing provisions (RID) : MP15  
Portable tank and bulk container instructions (RID) : T11  
Portable tank and bulk container special provisions (RID) : TP2, TP27  
Tank codes for RID tanks (RID) : L4BN  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE6  
Hazard identification number (RID) : 80

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

Not applicable

# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance 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.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Detergent Regulation (648/2004/EC): Labelling of contents:	
Component	%
non-ionic surfactants	<5%

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Raw materials information section 3.

See <http://esis.jrc.ec.europa.eu/index.php?PGM=dat> : Information on ingredients.

Health hazards

See Section 2 & 3 & 11.

Physical hazards

See Section 2 & 10.

Environmental hazards

See Section 2 & 3 & 12.

### SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
	Supersedes	Modified	
	Revision date	Modified	
	Issue date	Modified	
	Version	Modified	Major
1.2	Relevant identified uses	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	Major
2.2	Labelling according to Regulation (EC) No. 1272/2008 [CLP]	Modified	Major
3	Composition/information on ingredients	Modified	
8.2	Exposure controls	Modified	
9.1	Information on basic physical and chemical properties	Modified	
10.1	Stability and reactivity	Modified	
13.1	Waste disposal recommendations	Modified	

# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

15.1	Waterbezwaarlijkheid (Water hazard class)	Removed	
15.1	ABM category	Added	
16	Abbreviations and acronyms	Modified	
16	Data sources	Modified	

### Abbreviations and acronyms:

	<p>ABM: Algemene Beoordelings Methodiek (NL) / ADR: Accord Européen relatif au transport international des marchandises dangereuses par route) / ALG: Allergen / AQTX: Aquatic Toxicity / Atm: Atmosphere (unit of pressure) / bw: bodyweight / C: Ceiling / CAR: Carcinogenic Effects / CAS No: Chemical Abstracts Service Number (see ACS – American Chemical Society) / CMRs: Carcinogenic, Mutagenic or toxic to Reproduction (substances) / CSR: Chemical Safety Report / Cc (cm3): Cubic Centimeter / DNEL: Derived No-Effect Level / EC50: half maximal effective concentration / ED50: Effective Dose 50 / ET50: Exposure Time 50 / I.V.: Intravenous / Kg: Kilogram / LC: Lethal Concentration / LC50: Median Lethal Concentration / LCLO: Lowest Lethal Airborne Concentration Tested (see also LC50, LD50) / LD: Lethal Dose / LD50: Median Lethal Dose LDLO: Lowest Lethal Dose Tested (see also LC50, LD50) / MAC: Maximum Allowable Concentration / MAK: Maximale Arbeitsplatz-Konzentration (Germany, Maximum Workplace Concentration, see OEL) / MSDS: Material Safety Data Sheet / NOAEL: No Observed Adverse Effect Level / NOEL: No Observable Effect Level / OEL: Occupational Exposure Limits / PBTs: Persistent, Bioaccumulative and Toxic substances / PEC: Predicted Environmental Concentration / PNEC: Predicted No-Effect Concentration / REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances / STEL: Short-Term Exposure Limit / STEV: Short-Term Exposure Value / STP: Sewage Treatment Plant TLM: Threshold Limit, Median / TLV-C: Threshold Limit Value-Ceiling / TLV®: Threshold Limit Value / TWA: Time-Weighted Average / WGK: Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act) / g/gms: Grams / kJ/mol: Kilojoules per mole / kPa: KiloPascal (unit of pressure) / m3: Cubic Meter / mg: Milligram / ml: Milliliter / ml Hg: Milliliters of Mercury / n.o.s.: Not Otherwise Specified / nm: nanometer / ppb: Parts Per Billion / pph: parts per hundred (= percent) / ppm: Parts Per Million / ppt: parts per trillion / vPvBs: Very Persistent and Very Bioaccumulative substances</p>
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration



# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
TLM	Median Tolerance Limit
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources : Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 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. Regulation (EC) No. 648/2004 of 31 March 2004 on detergents.

Other information : None. **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic 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.

# Super Tip-Top Exclusiva

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.

Full text of use descriptors	
AISE SPERC 8a.1.a.v2	Wide Dispersive Use in 'Down the Drain' cleaning and maintenance products (Consumers and Professionals)
ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
PC35	Washing and cleaning products
PROC10	Roller application or brushing
PROC11	Non industrial spraying
PROC8a	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.