

**Trade name:** Super Foam**Product no.:** 396999**Current version :** 1.1.0, issued: 31.03.2021**Replaced version:** 1.0.0, issued: 01.12.2020**Region:** IE**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****Super Foam****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Cleaner

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**

Koch-Chemie GmbH

Einsteinstr. 42

D-59423 Unna

Telephone no. +49-2303-9 86 70-0

Fax no. +49-2303-9 86 70-26

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

+353 1 809 2166 (National Poisons Information Centre)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 3; H412

Carc. 2; H351

Eye Dam. 1; H318

Skin Corr. 1; H314

**Classification information**

Product is classified as "Corrosive" based on the extreme pH-value, see:

- Regulation 1272/2008 (CLP), Annex. I, number 3.2.2.2 / 3.2.3.1.2

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS05



GHS08

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

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trisodium-nitrilotriacetate  
 hexyl D-glucoside  
 Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density  $\geq 400$  g/l

**Hazard statement(s)**

H314 Causes severe skin burns and eye damage.  
 H351 Suspected of causing cancer.  
 H412 Harmful to aquatic life with long lasting effects.

**Hazard statements (EU)**

EUH208 Contains Orange, sweet, ext., 3-p-cumenyl-2-methylpropionaldehyde, 4-tert-butylcyclohexyl acetate, (2E)-2-(phenylmethylidene)octanal. May produce an allergic reaction.

**Precautionary statement(s)**

P201 Obtain special instructions before use.  
 P260 Do not breathe vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.

**2.3 Other hazards**

PBT assessment

According to the information provided in the supply chain, the mixture does not contain  $> 0.1\%$  of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain  $> 0.1\%$  of a substance that is considered to be vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	<b>trisodium-nitrilotriacetate</b>		
	5064-31-3 225-768-6 607-620-00-6 01-2119519239-36	Acute Tox. 4*; H302 Carc. 2; H351 Eye Irrit. 2; H319	$\geq 5,00$ - $< 10,00$ wt%
2	<b>hexyl D-glucoside</b>		
	54549-24-5 259-217-6 - 01-2119492545-29	Eye Dam. 1; H318	$\geq 5,00$ - $< 10,00$ wt%
3	<b>Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density <math>\geq 400</math> g/l</b>		
	85586-07-8 287-809-4	Acute Tox. 4; H302 Skin Irrit. 2; H315	$\geq 5,00$ - $< 10,00$ wt%

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	- 01-2119489463-28	Eye Dam. 1; H318 Aquatic Chronic 3; H412		
4	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>			
	68891-38-3 500-234-8 - 01-2119488639-16	Eye Dam. 1; H318 Skin Irrit. 2; H315 Aquatic Chronic 3; H412	< 5,00	wt%
5	<b>Orange, sweet, ext.</b>			
	8028-48-6 232-433-8 - 01-2119493353-35	Asp. Tox. 1; H304 Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 1; H410 Aquatic Acute 1; H400	< 0,50	wt%
6	<b>3-p-cumenyl-2-methylpropionaldehyde</b>			
	103-95-7 203-161-7 - 01-2119970582-32	Aquatic Chronic 3; H412 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 0,50	wt%
7	<b>4-tert-butylcyclohexyl acetate</b>			
	32210-23-4 250-954-9 - 01-2119976286-24	Skin Sens. 1B; H317	< 0,50	wt%
8	<b>(2E)-2-(phenylmethylidene)octanal</b>			
	165184-98-5 639-566-4 - 01-2119533092-50	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Skin Sens. 1; H317	< 0,50	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(\*, \*\*, \*\*\*, \*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	Carc. 2; H351: C >= 5%	-	-
3	-	Eye Irrit. 2; H319: C >= 10% Eye Dam. 1; H318: C >= 20%	-	-
4	-	Eye Irrit. 2; H319: C >= 5% Eye Dam. 1; H318: C >= 10%	-	-

**Acute toxicity estimate (ATE) values**

No	oral	dermal	inhalative
1	1740 mg/kg bodyweight		
3	501 mg/kg bodyweight		

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

**After inhalation**

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Do not use mouth-to-mouth or mouth-to-nose resuscitation. Irregular breathing/no breathing: artificial respiration.

**After skin contact**

Wash immediately with plenty of water for several minutes. Call a doctor immediately.

**After eye contact**

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Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

No data available.

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

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Foam; Carbon dioxide; Dry chemical extinguisher

**Unsuitable extinguishing media**

High power water jet

**5.2 Special hazards arising from the substance or mixture**

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Nitrogen oxides (NO<sub>x</sub>); Toxic gases/vapours

**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear full protective suit. Run-off water from fire fighting must not be discharged into drains or enter surface water.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing.

**For emergency responders**

Personal protective equipment (PPE) - see section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

**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). Flush away residues with water.

**6.4 Reference to other sections**

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid

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contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Have emergency shower available. Provide eye wash fountain in work area.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed. Store in a dry place.

**Recommended storage temperature**

Value

Room temperature

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container. Prevent unauthorized access.

**Incompatible products**

Substances to be avoided, see section 10.

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	trisodium-nitrilotriacetate			5064-31-3 225-768-6	
	inhalative	Short term (acut)	systemic	2,4	mg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	0,8	mg/cm <sup>2</sup>
2	hexyl D-glucoside			54549-24-5 259-217-6	
	dermal	Long term (chronic)	systemic	595000	mg/kg/day
	inhalative	Long term (chronic)	systemic	420	mg/m <sup>3</sup>
3	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density >=400 g/l			85586-07-8 287-809-4	
	dermal	Long term (chronic)	systemic	4060	mg/kg/day
	inhalative	Long term (chronic)	systemic	285	mg/m <sup>3</sup>
4	Alcohols, C12-14, ethoxylated, sulfates, sodium salts			68891-38-3 500-234-8	
	dermal	Long term (chronic)	systemic	2750	mg/kg/day
	dermal	Long term (chronic)	local	132	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	175	mg/m <sup>3</sup>
5	Orange, sweet, ext.			8028-48-6 232-433-8	
	dermal	Long term (chronic)		8,89	mg/kg/day
	dermal	Short term (acut)		185,8	µg/cm <sup>2</sup>
	inhalative			31,1	mg/m <sup>3</sup>
6	(2E)-2-(phenylmethylidene)octanal			165184-98-5 639-566-4	
	dermal	Long term (chronic)	systemic	18,2	mg/kg/day
	dermal	Long term (chronic)	local	525	µg/cm <sup>2</sup>
	dermal	Short term (acut)	local	525	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	0,078	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	6,28	mg/m <sup>3</sup>

**DNEL value (consumer)**

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	Route of exposure	Exposure time	Effect	Value
1	<b>trisodium-nitrilotriacetate</b>			<b>5064-31-3</b> <b>225-768-6</b>
	oral	Short term (acut)	systemic	0,9 mg/kg
	oral	Long term (chronic)	systemic	0,3 mg/kg
	dermal	Short term (acut)	systemic	
	inhalative	Short term (acut)	systemic	9,6 mg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	3,2 mg/cm <sup>2</sup>
2	<b>hexyl D-glucoside</b>			<b>54549-24-5</b> <b>259-217-6</b>
	oral	Long term (chronic)	systemic	35,7 mg/kg/day
	dermal	Long term (chronic)	systemic	357000 mg/kg/day
	inhalative	Long term (chronic)	systemic	124 mg/m <sup>3</sup>
3	<b>Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density &gt;=400 g/l</b>			<b>85586-07-8</b> <b>287-809-4</b>
	oral	Long term (chronic)	systemic	24 mg/kg/day
	dermal	Long term (chronic)	systemic	2440 mg/kg/day
	inhalative	Long term (chronic)	systemic	85 mg/m <sup>3</sup>
4	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>			<b>68891-38-3</b> <b>500-234-8</b>
	oral	Long term (chronic)	systemic	15 mg/kg/day
	dermal	Long term (chronic)	systemic	1650 mg/kg/day
	dermal	Long term (chronic)	local	79 µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	52 mg/m <sup>3</sup>
5	<b>Orange, sweet, ext.</b>			<b>8028-48-6</b> <b>232-433-8</b>
	oral	Long term (chronic)		4,44 mg/kg/day
	dermal	Long term (chronic)		4,44 mg/kg/day
	dermal	Short term (acut)		92,9 µg/cm <sup>2</sup>
	inhalative	Long term (chronic)		7,78 mg/m <sup>3</sup>
6	<b>(2E)-2-(phenylmethylidene)octanal</b>			<b>165184-98-5</b> <b>639-566-4</b>
	oral	Long term (chronic)	systemic	0,056 mg/kg/day
	dermal	Long term (chronic)	systemic	9,11 mg/kg/day
	dermal	Long term (chronic)	local	78,7 µg/cm <sup>2</sup>
	dermal	Short term (acut)	local	78,7 µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	0,019
	inhalative	Short term (acut)	local	4,71 mg/m <sup>3</sup>

## PNEC values

No	Substance name	CAS / EC no	
	ecological compartment	Type	Value
1	<b>trisodium-nitrilotriacetate</b>		<b>5064-31-3</b> <b>225-768-6</b>
	water	fresh water	0,93 mg/L
	water	marine water	0,093 mg/L
	sewage treatment plant	-	270 mg/L
2	<b>hexyl D-glucoside</b>		<b>54549-24-5</b> <b>259-217-6</b>
	water	fresh water	0,176 mg/L
	water	marine water	0,018 mg/L
	water	Aqua intermittent	4,2 mg/L
	water	fresh water sediment	0,722 mg/kg dry weight
	water	marine water sediment	0,072 mg/kg dry weight
	soil	-	0,654 mg/kg dry weight

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	sewage treatment plant	-	100	mg/L
	secondary poisoning	-	111,11	mg/kg
	with reference to: food			
3	<b>Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density &gt;=400 g/l</b>		<b>85586-07-8 287-809-4</b>	
	water	fresh water	0,131	mg/L
	water	marine water	0,0131	mg/L
	water	Aqua intermittent	0,036	mg/L
	water	fresh water sediment	4,61	mg/kg dry weight
	water	marine water sediment	0,461	mg/kg dry weight
	soil	-	0,846	mg/kg dry weight
	sewage treatment plant	-	1,35	mg/L
4	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>		<b>68891-38-3 500-234-8</b>	
	water	fresh water	0,24	mg/L
	water	marine water	0,024	mg/L
	water	Aqua intermittent	0,071	mg/L
	water	fresh water sediment	0,917	mg/kg dry weight
	water	marine water sediment	0,092	mg/kg dry weight
	soil	-	7,5	mg/kg dry weight
	sewage treatment plant	-	10	g/L
5	<b>Orange, sweet, ext.</b>		<b>8028-48-6 232-433-8</b>	
	water	fresh water	5,4	mg/L
	water	marine water	0,54	mg/L
	water	fresh water sediment	1,3	mg/kg dry weight
	water	marine water sediment	0,13	mg/kg dry weight
	water	Aqua intermittent	5,77	mg/L
	soil	-	0,261	mg/kg dry weight
	sewage treatment plant	-	2,1	mg/L
	secondary poisoning	-	13,3	mg/kg
	with reference to: food			
6	<b>(2E)-2-(phenylmethylidene)octanal</b>		<b>165184-98-5 639-566-4</b>	
	water	fresh water	0,001	mg/L
	water	marine water	0	mg/L
	water	fresh water sediment	3,2	mg/kg dry weight
	water	marine water sediment	0,064	mg/kg dry weight
	soil	-	0,398	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	6,6	mg/kg food

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust

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ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

**Personal protective equipment****Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

**Eye / face protection**

Tightly fitting safety glasses (EN 166).

**Hand protection**

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	butyl rubber		
Appropriate Material	neoprene		
Appropriate Material	Polychloroprene		
Appropriate Material	nitrile		
Material thickness	>=	0,5	mm
Breakthrough time	>	120	min

**Other**

Chemical-resistant work clothes.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>State of aggregation</b>	
liquid	
<b>Form/Colour</b>	
liquid	
yellow	
<b>Odour</b>	
characteristic	
<b>pH value</b>	
Value	12
<b>Boiling point / boiling range</b>	
No data available	
<b>Melting point/freezing point</b>	
No data available	
<b>Decomposition temperature</b>	
No data available	
<b>Flash point</b>	
No data available	
<b>Ignition temperature</b>	
No data available	
<b>Oxidising properties</b>	



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not oxidizing

**Explosive properties**

The product does not have explosive properties.

**Flammability**

No data available

**Lower explosion limit**

No data available

**Upper explosion limit**

No data available

**Vapour pressure**

No data available

**Relative vapour density**

No data available

**Relative density**

No data available

**Density**

Value	1,1	g/cm <sup>3</sup>
Reference temperature	20	°C

**Solubility in water**

Comments	miscible
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**Solubility**

No data available

**Partition coefficient n-octanol/water (log value)**

No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density >=400 g/l	85586-07-8	287-809-4
	log Pow	<=	-2,42
	Reference temperature		20 °C
	Method	OECD 107	
	Source	ECHA	
2	Orange, sweet, ext.	8028-48-6	232-433-8
	log Pow	>=	4
3	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
	log Pow	appr.	5,3
	Reference temperature		24 °C
	Method	OECD 117	
	Source	ECHA	

**Viscosity**

No data available

**Particle characteristics**

No data available

**9.2 Other information****Other information**

No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available.

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**10.2 Chemical stability**

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

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

None known

**10.5 Incompatible materials**

strong acids; strong oxidizing agents

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Super Foam
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	trisodium-nitrilotriacetate	5064-31-3	225-768-6
LD50		1740	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
2	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density >=400 g/l	85586-07-8	287-809-4
LD50		501 - 1999	mg/kg bodyweight
Species	rat		
Method	EU Method B.1		
Source	ECHA		
3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
LD50		4100	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
4	Orange, sweet, ext.	8028-48-6	232-433-8
LD50		> 5000	mg/kg bodyweight
Species	rat		
5	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
LD50		appr. 3100	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8

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LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
<b>2</b>	<b>Orange, sweet, ext.</b>	<b>8028-48-6</b>	<b>232-433-8</b>
LD50	>	5000	mg/kg bodyweight
Species	rabbit		
<b>3</b>	<b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>
LD50	>	3000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitritotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
LC50	>	5	mg/l
Duration of exposure	4 h		
State of aggregation	Dust		
Species	rat		
Source	ECHA		
<b>2</b>	<b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>
LC50	>	5	mg/l
Duration of exposure	4 h		
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 403		
Source	ECHA		

Skin corrosion/irritation	
No data available	

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitritotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
<b>2</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	strongly irritant		
<b>3</b>	<b>Orange, sweet, ext.</b>	<b>8028-48-6</b>	<b>232-433-8</b>
Species	rabbit		
Method	OECD 405		
Evaluation	non-irritant		
<b>4</b>	<b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>
Species	rabbit		
Method	EU B.5		
Source	ECHA		
Evaluation	non-irritant		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitritotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
Route of exposure	Skin		
Species	guinea pig		

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Method	OECD 406
Source	ECHA
Evaluation	non-sensitizing
<b>2</b>	<b>Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density &gt;=400 g/l</b> <b>85586-07-8</b> <b>287-809-4</b>
Route of exposure	Skin
Species	guinea pig
Source	ECHA
Evaluation	non-sensitizing
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>3</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b> <b>68891-38-3</b> <b>500-234-8</b>
Route of exposure	Skin
Species	guinea pig
Method	OECD 406
Source	ECHA
Evaluation	non-sensitizing
<b>4</b>	<b>(2E)-2-(phenylmethylidene)octanal</b> <b>165184-98-5</b> <b>639-566-4</b>
Route of exposure	Skin
Species	mouse
Method	OECD 429
Source	ECHA
Evaluation	sensitizing

**Germ cell mutagenicity**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitrilotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density &gt;=400 g/l</b>	<b>85586-07-8</b>	<b>287-809-4</b>
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typh. TA98, TA100, TA1535, TA1537, TA1538		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	in vitro gene mutation study in mammalian cells		
Species	mouse lymphoma L5178Y cells		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Reproduction toxicity**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitrilotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
Species	rat		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density &gt;=400 g/l</b>	<b>85586-07-8</b>	<b>287-809-4</b>
Route of exposure	oral		
Type of examination	Prenatal Developmental Toxicity Study		
Species	rat		
Method	OECD 414		

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Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>3</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b> <b>68891-38-3</b> <b>500-234-8</b>
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Carcinogenicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density &gt;=400 g/l</b>	<b>85586-07-8</b>	<b>287-809-4</b>
Source	ECHA / Read across		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure
No data available

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitritotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
Route of exposure	dermal		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	inhalational		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	oral		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Aspiration hazard
No data available

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available.

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitritotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
LC50		114	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Source	ECHA		
<b>2</b>	<b>Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density &gt;=400 g/l</b>	<b>85586-07-8</b>	<b>287-809-4</b>
LC50		3,6	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
<b>3</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>

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LC50		7,1	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		
<b>4</b>	<b>Orange, sweet, ext.</b>	<b>8028-48-6</b>	<b>232-433-8</b>
LC50		0,7	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
<b>5</b>	<b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>
LC50		1,7	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		

**Toxicity to fish (chronic)**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitrilotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
NOEC	>	54	mg/l
Duration of exposure		224	day(s)
Species	Pimephales promelas		
Source	ECHA		

**Toxicity to Daphnia (acute)**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density &gt;=400 g/l</b>	<b>85586-07-8</b>	<b>287-809-4</b>
EC50		4,7	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EC 92/69		
Source	ECHA		
<b>2</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
EC50		7,4	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>3</b>	<b>Orange, sweet, ext.</b>	<b>8028-48-6</b>	<b>232-433-8</b>
EC50		0,67	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	OECD 202		
<b>4</b>	<b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>
EC50	> 0,36	- 0,58	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

**Toxicity to Daphnia (chronic)**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitrilotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
NOEC		9,3	mg/l
Duration of exposure		147	day(s)
Species	Daphnia magna		

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Source	ECHA		
<b>2</b>	<b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>
NOEC		0,063	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitritotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
ErC50	>	91,5	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
<b>2</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
ErC50		27,7	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
<b>3</b>	<b>Orange, sweet, ext.</b>	<b>8028-48-6</b>	<b>232-433-8</b>
ErC50		150	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
<b>4</b>	<b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>
EC50	>	0,065	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitritotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
NOEC		1,43	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
<b>2</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
NOEC		0,95	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
EC50	>	10000	mg/l
Duration of exposure		16	h
Species	Pseudomonas putida		
Method	DIN 38412 T.8		

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Source

ECHA

**12.2 Persistence and degradability**

<b>Biodegradability</b>			
No	Substance name	CAS no.	EC no.
1	trisodium-nitrilotriacetate	5064-31-3	225-768-6
Value		100	%
Duration		14	d
Method	OECD 301 E		
Source	ECHA		
Evaluation	readily biodegradable		
2	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density >=400 g/l	85586-07-8	287-809-4
Type	aerobic biodegradation		
Value	90	- 100	%
Duration		28	day(s)
Method	OECD 301 D		
Source	ECHA		
Evaluation	readily biodegradable		
3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
Type	DOC decrease		
Value		100	%
Duration		14	day(s)
Source	ECHA		
Evaluation	readily biodegradable		
4	Orange, sweet, ext.	8028-48-6	232-433-8
Value	72	- 83,4	%
Duration		28	day(s)
Method	OECD 301 B		
Evaluation	readily biodegradable		
5	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
Value	appr.	97	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		

**12.3 Bioaccumulative potential**

<b>Bioconcentration factor (BCF)</b>			
No	Substance name	CAS no.	EC no.
1	Orange, sweet, ext.	8028-48-6	232-433-8
BCF		32	- 156
<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density >=400 g/l	85586-07-8	287-809-4
log Pow	<=	-2,42	
Reference temperature		20	°C
Method	OECD 107		
Source	ECHA		
2	Orange, sweet, ext.	8028-48-6	232-433-8
log Pow	>=	4	
3	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
log Pow	appr.	5,3	
Reference temperature		24	°C
Method	OECD 117		



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Source

ECHA

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.
vPvB assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information****Other information**

Do not discharge into the drains or waters and do not store on public depositories.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

**14.2 Transport IMDG**

The product is not subject to IMDG regulations.

**14.3 Transport ICAO-TI / IATA**

The product is not subject to ICAO-TI / IATA regulations.

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

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**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No 3

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.  
Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

**Creation of the safety data sheet**

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

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This information is based on our present knowledge and experience.  
The safety data sheet describes products with a view to safety requirements.  
It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

**Alterations/supplements:**

Alterations to the previous edition are marked in the left-hand margin.

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