



NIELSEN

SAFETY DATA SHEET POWERFOAM PLUS

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

1.1. Product identifier

Product name POWERFOAM PLUS

Internal identification L196

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

Identified uses Cleaning agent.

Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier NIELSEN CHEMICALS
 RAWDON ROAD
 MOIRA
 SWADLINCOTE
 DERBYSHIRE
 DE12 6DA
 TEL: +44 (0) 1283 222277
 FAX: +44 (0) 1283 225731
 info@nielsenchemicals.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 777 8505 330 (24 hrs). +44 (0) 1865 407333 (24 hrs). MEDICAL AND ENVIRONMENTAL EMERGENCIES ONLY.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Met. Corr. 1 - H290

Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) C;R35.

2.2. Label elements

Pictogram



Signal word Danger

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Hazard statements	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.
Precautionary statements	P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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. P310 Immediately call a POISON CENTER/ doctor. P501 Dispose of contents/ container in accordance with national regulations. P280 Wear protective clothing, gloves, eye and face protection.
Contains	SODIUM HYDROXIDE
Detergent labelling	< 5% aliphatic hydrocarbons, < 5% amphoteric surfactants, < 5% cationic surfactants, < 5% EDTA and salts thereof, < 5% non-ionic surfactants, < 5% phosphonates

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE		1-5%
CAS number: 64-02-8	EC number: 200-573-9	REACH registration number: 01-2119486762-27-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	Xn;R20/22. Xi;R41.	
Acute Tox. 4 - H332		
Eye Dam. 1 - H318		
STOT RE 2 - H373		
SODIUM HYDROXIDE		1-5%
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27
Classification	Classification (67/548/EEC or 1999/45/EC)	
Met. Corr. 1 - H290	C;R35	
Skin Corr. 1A - H314		
Eye Dam. 1 - H318		
tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate		1-5%
CAS number: 51981-21-6	EC number: 257-573-7	REACH registration number: 01-2119493601-38-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)	
Not Classified	-	

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Amides, C8-18 (even numbers) and C18-unsatd, N,N-bis(hydroxyethyl)		1-5%
CAS number: 68155-07-7	EC number: 931-329-6	REACH registration number: 01-2119490100-53-xxxx
Classification Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC) Xi;R38,R41.	
2-BUTOXYETHANOL		1-5%
CAS number: 111-76-2	EC number: 203-905-0	REACH registration number: 01-2119475108-36-XXXX
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Classification (67/548/EEC or 1999/45/EC) Xn;R20/21/22 Xi;R36/38	
TETRASODIUM 1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONATE		1-5%
CAS number: 3794-83-0	EC number: 223-267-7	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Classification (67/548/EEC or 1999/45/EC) Xi;R36/38.	
BETA-ALANINE, N-(2-CARBOXYETHYL)-N-DODECYL MONOSODIUM SALT		1-5%
CAS number: 68608-68-4	EC number: 271-795-1	
Classification Eye Irrit. 2 - H319	Classification (67/548/EEC or 1999/45/EC) Xi;R36.	
ALCOHOL C9-11 ETHOXYLATE		<1%
CAS number: 68439-46-3		
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC or 1999/45/EC) Xn;R22. Xi;R41.	

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PROPANE-1,2-DIOL		<1%
CAS number: 57-55-6	EC number: 200-338-0	REACH registration number: 01-2119456809-23-XXXX
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -	
ALKYL AMINE OXIDE		<1%
CAS number: 68955-55-5	EC number: 273-281-2	REACH registration number: 01-2119490061-47-0000
M factor (Acute) = 1		
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC) Xi;R38,R41. N;R50.	
GLYCERINE		<1%
CAS number: 56-81-5	EC number: 200-289-5	REACH registration number: 01-2119471987-18-XXXX
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -	
2,2'-IMINODIETHANOL		<1%
CAS number: 111-42-2	EC number: 203-868-0	REACH registration number: 01-2119488930-28-xxxx
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT RE 2 - H373	Classification (67/548/EEC or 1999/45/EC) Xn;R22,R48/22 Xi;R38,R41	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Show this Safety Data Sheet to the medical personnel. Chemical burns must be treated by a physician.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.
Skin contact	Rinse immediately with plenty of water. Get medical attention immediately.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention immediately.

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

General information	Chemical burns must be treated by a physician.
Inhalation	Coughing, chest tightness, feeling of chest pressure.
Ingestion	Causes severe burns.
Skin contact	Causes severe burns.
Eye contact	Causes serious eye damage.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x). Phosphorus.
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5.3. Advice for firefighters

Protective actions during firefighting	No specific firefighting precautions known.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing. Take care as floors and other surfaces may become slippery. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage.
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6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Contain spillage with sand, earth or other suitable non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.
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6.4. Reference to other sections

Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Usage precautions Wear protective clothing, gloves, eye and face protection. Avoid contact with skin, eyes and clothing. Avoid spilling. Do not eat, drink or smoke when using this product. Do not empty into drains. Do not reuse empty containers. Do not use in paint spraying equipment. Do not handle broken packages without protective equipment. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 4°C and 40°C.

Storage class Corrosive storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m³

2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m³

Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m³

Sk

PROPANE-1,2-DIOL

Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m³

GLYCERINE

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³

2,2'-IMINODIETHANOL

Long-term exposure limit (8-hour TWA): WEL 3 ppm 13 mg/m³

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)

DNEL Workers - Inhalation; Long term local effects, systemic effects: 1.5 mg/m³
 Workers - Inhalation; Short term systemic effects, local effects: 3 mg/m³
 Consumer - Inhalation; Long term systemic effects, local effects: 0.6 mg/m³
 Consumer - Inhalation; Short term local effects, systemic effects: 1.2 mg/m³
 Consumer - Oral; Long term systemic effects, local effects: 25 mg/m³

PNEC - Fresh water; 2.2 mg/l
 - Marine water; 0.22 mg/l
 - Intermittent release; 1.2 mg/l
 - STP; 43 mg/l
 - Soil; 0.72 mg/kg

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL Industry - Inhalation; Short term local effects: 1 mg/m³
 Industry - Inhalation; Long term local effects: 1 mg/m³
 Consumer - Inhalation; Short term local effects: 1 mg/m³

tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (CAS: 51981-21-6)

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DNEL Workers - Inhalation; Long term systemic effects: 7.3 mg/m³
 Workers - Dermal; Long term systemic effects: 15,000 mg/kg/day
 General population - Inhalation; Long term systemic effects: 1.8 mg/m³
 General population - Dermal; Long term systemic effects: 7,500 mg/kg/day
 General population - Oral; Long term systemic effects: 1.5 mg/kg/day

2-BUTOXYETHANOL (CAS: 111-76-2)

DNEL Industry - Dermal; Short term systemic effects: 89 mg/kg/day
 Industry - Inhalation; Short term systemic effects: 663 mg/m³
 Industry - Dermal; Long term systemic effects: 75 mg/kg/day
 Industry - Inhalation; Long term systemic effects: 98 mg/m³
 Consumer - Dermal; Short term systemic effects: 44.5 mg/kg
 Consumer - Inhalation; Short term systemic effects: 426 mg/m³
 Consumer - Oral; Short term systemic effects: 13.4 mg/m³
 Consumer - Dermal; Long term systemic effects: 38 mg/kg
 Consumer - Oral; Long term systemic effects: 3.2 mg/kg
 Consumer - Inhalation; Long term systemic effects: 49 mg/kg
 Consumer - Inhalation; local effects: 123 mg/kg
 Industry - Inhalation; local effects: 246 mg/m³

PNEC - Fresh water; 8.8 mg/l
 - Marine water; 0.88 mg/l
 - Sediment (Freshwater); 34.6 mg/kg
 - Soil; 2.8 mg/kg
 - STP; 463 mg/l
 - Sediment (Marinewater); 3.46

Amides, C8-18 (even numbers) and C18-unsatd, N,N-bis(hydroxyethyl) (CAS: 68155-07-7)

DNEL Industry - Dermal; Long term systemic effects: 4.16 mg/kg/day
 Industry - Inhalation; Long term systemic effects: 73.4 mg/m³
 Consumer - Dermal; Long term systemic effects: 2.5 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 21.73 mg/m³
 Consumer - Oral; Long term systemic effects: 6.25 mg/kg/day

PNEC - Fresh water; 0.007 mg/l
 - Marine water; 0.0007 mg/l
 - Intermittent release; 0.0024 mg/l
 - STP; 830 mg/l
 - Soil; 0.0348 mg/l
 - Sediment (Freshwater); 0.195 mg/kg
 - Sediment (Marinewater); 0.0195 mg/kg

TETRASODIUM 1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONATE (CAS: 3794-83-0)

DNEL Workers - Inhalation; Long term systemic effects: 16.9 mg/m³
 Workers - Inhalation; Long term local effects: 10 mg/m³
 Workers - Dermal; Long term systemic effects: 48 mg/kg/day
 General population - Inhalation; Long term systemic effects: 4.2 mg/m³
 General population - Inhalation; Long term local effects: 10 mg/m³
 General population - Inhalation; Short term local effects: 10 mg/m³
 General population - Dermal; Long term systemic effects: 24 mg/kg/day
 General population - Oral; Long term systemic effects: 2.1 mg/kg/day

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- PNEC**
- Fresh water; 0.096 mg/l
 - Marine water; 0.01 mg/l
 - STP; 58 mg/l
 - Sediment (Freshwater); 42 mg/kg
 - Sediment (Marinewater); 4.2 mg/kg
 - Soil; 14 mg/kg

ALCOHOL C9-11 ETHOXYLATE (CAS: 68439-46-3)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 294 mg/m³
 - Workers - Dermal; Long term systemic effects: 2080 mg/kg/day
 - General population - Inhalation; Long term systemic effects: 87 mg/m³
 - General population - Dermal; Long term systemic effects: 1250 mg/kg/day
 - General population - Oral; Long term systemic effects: 25 mg/kg/day

- PNEC**
- Fresh water; 0.10379 mg/l
 - Marine water; 0.10379 mg/l
 - Fresh water, Intermittent release; 0.014 mg/l
 - Sediment (Freshwater); 13.7 mg/kg
 - Sediment (Marinewater); 13.7 mg/kg
 - Soil; 1 mg/kg
 - STP; 1.4 mg/l

PROPANE-1,2-DIOL (CAS: 57-55-6)

- DNEL**
- Industry - Inhalation; Long term systemic effects: 168 mg/m³
 - Consumer - Inhalation; Long term systemic effects: 50 mg/m³
 - Industry - Inhalation; Long term local effects: 10 mg/m³
 - Consumer - Inhalation; Long term local effects: 10 mg/m³

- PNEC**
- Fresh water; 260 mg/l
 - Marine water; 26 mg/l
 - STP; 20000 mg/l
 - Sediment (Freshwater); 572 mg/kg
 - Sediment (Marinewater); 57.2 mg/kg
 - Soil; 50 mg/kg
 - Intermittent release; 183 mg/l

ALKYL AMINE OXIDE (CAS: 68955-55-5)

- DNEL**
- Workers - Dermal; systemic effects: 11 mg/kg/day
 - Workers - Inhalation; Long term systemic effects: 15.5 mg/m³
 - Workers - Dermal; local effects: 0.27 %
 - General population - Dermal; systemic effects: 5.5 mg/kg/day
 - General population - Inhalation; systemic effects: 3.8 mg/m³
 - General population - Oral; systemic effects: 0.44 mg/kg/day

- PNEC**
- Fresh water; 0.0335 mg/l
 - Marine water; 0.00335 mg/l
 - Water, Intermittent release; 0.0335 mg/l
 - Sediment (Freshwater); 5.24 mg/kg
 - Sediment (Marinewater); 0.524 mg/l
 - Soil; 1.02 mg/kg
 - STP; 24 mg/kg

2,2'-IMINODIETHANOL (CAS: 111-42-2)

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DNEL	<p>Workers - Inhalation; Long term local effects: 1.0 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 0.13 mg/kg/day</p> <p>General population - Inhalation; Long term local effects: 0.25 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 0.07 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 0.06 mg/kg/day</p>
PNEC	<ul style="list-style-type: none"> - Fresh water; 0.0022 mg/l - Marine water; 0.00022 mg/l - Intermittent release; 0.022 mg/l - STP; 100 mg/l - Sediment (Freshwater); 0.012 mg/kg - Sediment (Marinewater); 0.0012 mg/kg - Soil; 0.0011 mg/kg

GLYCERINE (CAS: 56-81-5)

DNEL	<p>Workers - Inhalation; Long term local effects: 56 mg/m³</p> <p>General population - Inhalation; Long term local effects: 33 mg/m³</p> <p>General population - Oral; Long term systemic effects: 229 mg/kg/day</p>
PNEC	<ul style="list-style-type: none"> - Fresh water; 0.885 mg/l - Marine water; 0.0885 mg/l - Intermittent release; 8.85 mg/l - STP; 1000 mg/l - Sediment (Freshwater); 3.3 mg/kg - Sediment (Marinewater); 0.33 mg/kg - Soil; 0.141 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

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Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Protective gloves should have a minimum thickness of 0.1 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. For work of short duration or where a high degree of manual dexterity is needed, use protective gloves made of: Neoprene. Nitrile rubber. Rubber (natural, latex).

Other skin and body protection

Wear apron or protective clothing in case of contact.

Hygiene measures

Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Red.
Odour	Characteristic.
pH	pH (concentrated solution): >11.5
Relative density	1.09 @ 25°C
Solubility(ies)	Completely soluble in water.

9.2. Other information

Other information	Not determined.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	The following materials may react with the product: Acids.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not determined.
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10.4. Conditions to avoid

Conditions to avoid	Avoid the following conditions: Acids.
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10.5. Incompatible materials

Materials to avoid	Strong acids.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x). Phosphorus.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 27,878.57

Acute toxicity - dermal

ATE dermal (mg/kg) 34,212.86

Acute toxicity - inhalation

ATE inhalation (gases ppm) 260,392.56

ATE inhalation (vapours mg/l) 293.09

ATE inhalation (dusts/mists mg/l) 86.8

Skin corrosion/irritation

Human skin model test Read-across data.

Extreme pH ≥ 11.5 Corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation Corrosive to skin. Corrosivity to eyes is assumed. No testing is needed.

Inhalation Coughing, chest tightness, feeling of chest pressure.

Ingestion Causes severe burns.

Skin contact Causes severe burns.

Eye contact Causes serious eye damage.

Toxicological information on ingredients.

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,780.0

Species Rat

ATE oral (mg/kg) 1,780.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

ATE inhalation (gases ppm) 11,250.0

ATE inhalation (vapours mg/l) 27.5

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ATE inhalation 3.75
(dusts/mists mg/l)

SODIUM HYDROXIDE**Acute toxicity - oral**

Acute toxicity oral (LD₅₀) 2,000.0
mg/kg)

Species Rat

ATE oral (mg/kg)

tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate**Acute toxicity - oral**

Acute toxicity oral (LD₅₀) 2,001.0
mg/kg)

Species Rat

ATE oral (mg/kg) 2,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀) 2,000.1
mg/kg)

Species Rat

ATE dermal (mg/kg) 2,000.1

Amides, C8-18 (even numbers) and C18-unsatd, N,N-bis(hydroxyethyl)**Acute toxicity - oral**

Acute toxicity oral (LD₅₀) 5,000.0
mg/kg)

Species Rat

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀) 2,000.0
mg/kg)

Species Rat

ATE dermal (mg/kg) 2,000.0

2-BUTOXYETHANOL**Acute toxicity - oral**

Acute toxicity oral (LD₅₀) 1,746.0
mg/kg)

Species Rat

ATE oral (mg/kg) 1,746.0

Acute toxicity - dermal

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Acute toxicity dermal (LD₅₀ 1,060.0
mg/kg)

Species Rabbit

ATE dermal (mg/kg) 1,060.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

ATE inhalation (vapours 11.0
mg/l)

TETRASODIUM 1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 2,850.0
mg/kg)

Species Rat

ATE oral (mg/kg) 2,850.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 5,000.0
mg/kg)

Species Rabbit

ATE dermal (mg/kg) 5,000.0

ALCOHOL C9-11 ETHOXYLATE

Acute toxicity - oral

ATE oral (mg/kg) 500.0

PROPANE-1,2-DIOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 20,000.0
mg/kg)

Species Rat

ATE oral (mg/kg) 20,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,001.0
mg/kg)

Species Rabbit

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Acute toxicity inhalation 317.0
(LC₅₀ vapours mg/l)

Species Rabbit

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ATE inhalation (vapours
mg/l) 317.0

ALKYL AMINE OXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 1,064.0

Species Rat

Notes (oral LD₅₀)

ATE oral (mg/kg) 1,064.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 2,000.01

Species Rat

ATE dermal (mg/kg) 2,000.01

GLYCERINE

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 2,001.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 1,000.0

Species Rabbit

2,2'-IMINODIETHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 1,600.0

Species Rat

ATE oral (mg/kg) 500.0

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not determined.

Ecological information on ingredients.

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TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 100 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >100 mg/l, Daphnia magna

SODIUM HYDROXIDE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 48 hours: ~ 145 mg/l, Poecilia reticulata (Guppy)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: ~ 76 mg/l, Daphnia magna
REACH dossier information.

tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 100 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 100 mg/l, Daphnia magna

Amides, C8-18 (even numbers) and C18-unsatd, N,N-bis(hydroxyethyl)

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC₅₀, : 3.2 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, : 3.9 mg/l,

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.07 mg/l, Daphnia magna

2-BUTOXYETHANOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 820 - 1490 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 835 - 1550 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: 1840 mg/l, Algae

BETA-ALANINE, N-(2-CARBOXYETHYL)-N-DODECYL MONOSODIUM SALT

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 97 mg/l, Daphnia magna

ALCOHOL C9-11 ETHOXYLATE

Acute aquatic toxicity

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Acute toxicity - fish LC₅₀, 96 hours: 57 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 2.5 mg/l, Daphnia magna

PROPANE-1,2-DIOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 40613 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 4000 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: 19000 mg/l, Selenastrum capricornutum

ALKYL AMINE OXIDE

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: <1 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 3.1 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 0.14 mg/l, Algae

GLYCERINE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 54000 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, >: > 10000 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: > 2900 mg/l, Freshwater algae

Acute toxicity - microorganisms EC₅₀, >: > 1000 mg/l, Activated sludge

2,2'-IMINODIETHANOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 10 - 100 mg/l, Daphnia magna

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.78 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

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12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

Special Provisions note

14.1. UN number

UN No. (ADR/RID)	1760
UN No. (IMDG)	1760
UN No. (ICAO)	1760

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	CORROSIVE LIQUID, N.O.S. (sodium hydroxide)
Proper shipping name (IMDG)	CORROSIVE LIQUID, N.O.S. (sodium hydroxide)
Proper shipping name (ICAO)	CORROSIVE LIQUID, N.O.S. (sodium hydroxide)

14.3. Transport hazard class(es)

ADR/RID class	8
IMDG class	8
ICAO class/division	8

Transport labels



14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II

14.5. Environmental hazards

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Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Tunnel restriction code (E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended).
EU legislation	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended). 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 (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010. Commission Regulation (EU) No 2015/830 of 28 May 2015.
Guidance	Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ATE: Acute Toxicity Estimate. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. EC ₅₀ : 50% of maximal Effective Concentration. IARC: International Agency for Research on Cancer. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods. LC ₅₀ : Lethal Concentration to 50 % of a test population. LD ₅₀ : Lethal Dose to 50% of a test population (Median Lethal Dose). NOEC: No Observed Effect Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. vPvB: Very Persistent and Very Bioaccumulative. UN: United Nations.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	05/09/2017
Revision	3.2
Supersedes date	31/08/2016
SDS number	25145

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Risk phrases in full

Not classified.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R20/22 Harmful by inhalation and if swallowed.
R22 Harmful if swallowed.
R34 Causes burns.
R35 Causes severe burns.
R36/38 Irritating to eyes and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.

Hazard statements in full

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H373 May cause damage to organs (Blood, Kidneys, Liver) through prolonged or repeated exposure.
H373 May cause damage to organs (Respiratory system, lungs) through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.