



SAFETY DATA SHEET DANOX HC 30

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

1.1. Product identifier

Product name	DANOX HC 30
Product number	45531
Synonyms; trade names	DANOX HC 30 RSPO MB

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

Identified uses	Surfactant Cosmetics Hair and skin care products
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1.3. Details of the supplier of the safety data sheet

Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 +44 1274 267306 SDS.EMEA@univarsolutions.com
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1.4. Emergency telephone number

Emergency telephone	SGS - +32 (0)3 575 55 55 (24h)
Sds No.	45531

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Aquatic Chronic 3 - H412

2.2. Label elements

Hazard statements	H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment. P501 Dispose of contents/ container in accordance with local regulations.

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

DANOX HC 30**FATTY ACIDS, C16-18 AND C18-UNSATD., REACTION
PRODUCTS WITH TRIETHANOLAMINE, DI-ME SULFATE-
QUATERNIZED****10 - 20 %**

CAS number: 1335202-88-4

EC number: 931-203-0

REACH registration number: 01-
2119463889-16-XXXX

Acute Toxicity Estimate (oral):> 5000 mg/kg

Acute Toxicity Estimate (dermal):> 2000 mg/kg

Classification

Aquatic Chronic 3 - H412

n-(3-(DIMETHYLAMINO)PROPYL)DOCOSANAMIDE**10 - 20%**

CAS number: 60270-33-9

EC number: 262-134-8

REACH registration number: 01-
2120105211-81-XXXX

Acute Toxicity Estimate (oral):> 2000 mg/kg

Acute Toxicity Estimate (dermal):> 2000 mg/kg

Classification

Eye Dam. 1 - H318

Aquatic Chronic 3 - H412

(L) LACTIC ACID**2.5 - 5%**

CAS number: 79-33-4

EC number: 201-196-2

REACH registration number: 01-
2119474164-39-XXXX

Acute Toxicity Estimate (oral):3543 mg/kg

Acute Toxicity Estimate (dermal):> 2000 mg/kg

Acute Toxicity Estimate (inhalation):7.94 mg/lVapour

Classification

Skin Corr. 1C - H314

Eye Dam. 1 - H318

The full text for all hazard statements is displayed in Section 16.

Composition comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation. Get medical attention if symptoms are severe or persist. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When heated, vapours/gases hazardous to health may be formed. Development of symptoms may be delayed for 24 to 48 hours. Keep affected person under observation.

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Ingestion	Rinse mouth thoroughly with water. Remove any dentures. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Give plenty of water to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms are severe or persist. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if any discomfort continues. Wash clothing and clean shoes thoroughly before reuse.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Get medical attention if any discomfort continues.
Protection of first aiders	No action shall be taken without appropriate training or involving any personal risk. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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

Eye contact	Solid particles trapped behind the eyelid may cause abrasive damage.
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4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically. When heated, vapours/gases hazardous to health may be formed. Development of symptoms may be delayed for 24 to 48 hours. Keep affected person under observation.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	When heated and in case of fire, toxic vapours/gases may be formed. Harmful to aquatic life with long lasting effects. Control run-off water by containing and keeping it out of sewers and watercourses.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon. Nitrogen. Sulphur.

5.3. Advice for firefighters

Protective actions during firefighting	Evacuate area. Keep unnecessary and unprotected personnel away from the spillage. No action shall be taken without appropriate training or involving any personal risk.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions

Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of dust and contact with skin and eyes. No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Keep unnecessary and unprotected personnel away from the spillage. Do not touch or walk into spilled material.

6.2. Environmental precautions

Environmental precautions

Harmful to aquatic life with long lasting effects. Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Move containers from spillage area. Approach the spillage from upwind. Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of dust and contact with skin and eyes. Avoid release to the environment. Store in tightly-closed, original container. Container must be kept tightly closed when not in use. Product residues retained in emptied containers can be hazardous. Do not reuse empty containers.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Observe good chemical hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from sunlight. Store away from incompatible materials (see Section 10). Keep away from food and drink. Container must be kept tightly closed when not in use. Keep containers upright. Only store in correctly labelled containers. Use appropriate containment to avoid environmental contamination.

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

Ingredient comments

No exposure limits known for ingredient(s).

FATTY ACIDS, C16-18 AND C18-UNSATD., REACTION PRODUCTS WITH TRIETHANOLAMINE, DI-ME SULFATE-QUATERNIZED (CAS: 1335202-88-4)

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PNEC	Fresh water; 0.00191 mg/l marine water; 0.000191 mg/l STP; 2.96 mg/l Sediment (Freshwater); 0.58 mg/kg Sediment (Marinewater); 0.058 mg/kg
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n-(3-(DIMETHYLAMINO)PROPYL)DOCOSANAMIDE (CAS: 60270-33-9)

Ingredient comments	No exposure limits known for ingredient(s).
DNEL	Workers - Inhalation; Long term systemic effects: 2.94 mg/m ³ Workers - Dermal; Long term systemic effects: 4.17 mg/kg/day Consumer - Inhalation; Long term systemic effects: 0.87 mg/m ³ Consumer - Oral; Long term systemic effects: 0.5 mg/kg/day
PNEC	- Fresh water; 1.16 µg/l - marine water; 0.116 µg/l - STP; 1.081 mg/l

(L) LACTIC ACID (CAS: 79-33-4)

Ingredient comments	WEL = Workplace Exposure Limits
DNEL	Industry - Inhalation; Short term : 592 mg/m ³ Consumer - Oral; : 35.4 mg/kg/day Consumer - Inhalation; : 296
PNEC	- Fresh water; 1.3 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure.

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: Wear chemical splash goggles. or Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

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. The selected gloves should have a breakthrough time of at least 8 hours. Rubber (natural, latex). To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product.

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Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/141/145/143/149
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Solid.
Colour	No information available.
Odour	No information available.
Odour threshold	No information available.
pH	pH (diluted solution): 3.5 - 5.0 (2.5%)
Melting point	No information available.
Pour Point	No information available.
Freezing Point	No information available.
Initial boiling point and range	No information available.
Flash point	> 150°C Closed cup.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	0.905 - 0.915 @ 20°C
Bulk density	No information available.
Solubility(ies)	No information available.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	<200 cP @ 75°C
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	No information available.

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Oxidising properties Not available.

9.2. Other information

Other information No information available.

Refractive index No information available.

Particle size No information available.

Molecular weight No information available.

Volatility No information available.

Saturation concentration No information available.

Critical temperature No information available.

Volatile organic compound No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition

10.5. Incompatible materials

Materials to avoid No information available.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon. Nitrogen. Sulphur.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) No information available.

Acute toxicity - dermal

Notes (dermal LD₅₀) No information available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Animal data Not irritating. OECD 439

Serious eye damage/irritation

Serious eye damage/irritation Not irritating. OECD 492

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Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

Inhalation Dust in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact Solid particles trapped behind the eyelid may cause abrasive damage.

Toxicological information on ingredients.

FATTY ACIDS, C16-18 AND C18-UNSATD., REACTION PRODUCTS WITH TRIETHANOLAMINE, DI-ME SULFATE-QUATERNIZED

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising.

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Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. OECD 471 Chromosome aberration: Negative. OECD 473 Gene mutation: Negative. OECD 476

Genotoxicity - in vivo Micronucleus assay: Negative. OECD 474

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility - NOAEL 1000 mg/kg, Oral, Rat Fertility - NOEL 1000 mg/kg, Oral, Rat

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact May cause temporary eye irritation.

n-(3-(DIMETHYLAMINO)PROPYL)DOCOSANAMIDE

Acute toxicity - oral

Notes (oral LD₅₀) This information is based on test data from similar products LD₅₀ >2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) This information is based on test data from similar products LD₅₀ >2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Animal data This information is based on test data from similar products Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation This information is based on test data from similar products Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising. Guinea pig

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Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. OECD 471

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Not available.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion Overexposure may cause the following adverse effects: Stomach pain.

Skin contact Overexposure may cause the following adverse effects: Pain or irritation. Redness. Blistering may occur.

Eye contact Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. Overexposure may cause the following adverse effects: Pain. Profuse watering of the eyes. Redness.

(L) LACTIC ACID

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,543.0

Species Rat

ATE oral (mg/kg) 3,543.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 7.94

Species Rat

Notes (inhalation LC₅₀) OECD 403

ATE inhalation (vapours mg/l) 7.94

Skin corrosion/irritation

Skin corrosion/irritation Causes severe burns.

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Serious eye damage/irritation

Serious eye damage/irritation Causes severe burns.

Respiratory sensitisation

Respiratory sensitisation Not classified.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties.

Genotoxicity - in vivo This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity No evidence of carcinogenicity in animal studies. Read-across data.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.
LOAEL 13wk 5d/wk: 886 mg/kg, Dermal, Rat Slightly irritating.
NOAEL 13wk 1/d: 5000 mg/kg, Oral, Rat, Male, Female Read-across data.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Inhalation Corrosive to the respiratory tract.

Ingestion May cause discomfort if swallowed. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting.

Skin contact Causes severe burns.

Eye contact Causes severe burns. May cause chemical eye burns. May cause permanent damage if eye is not immediately irrigated.

SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

FATTY ACIDS, C16-18 AND C18-UNSATD., REACTION PRODUCTS WITH TRIETHANOLAMINE, DI-ME SULFATE-QUATERNIZED

Ecotoxicity Harmful to aquatic life with long lasting effects.

n-(3-(DIMETHYLAMINO)PROPYL)DOCOSANAMIDE

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Ecotoxicity Harmful to aquatic life with long lasting effects.

(L) LACTIC ACID

Ecotoxicity The product components are not classified as environmentally hazardous.
However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

FATTY ACIDS, C16-18 AND C18-UNSATD., REACTION PRODUCTS WITH TRIETHANOLAMINE, DI-ME SULFATE-QUATERNIZED

Toxicity Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1.91 mg/l, Fish, Freshwater fish
OECD 203

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 2.23 mg/l, Daphnia magna, Freshwater invertebrates

Acute toxicity - aquatic plants EC₅₀, 72 hours: 2.14 mg/l, Algae
OECD 201

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 30 days: 0.224 mg/l, Fish
OECD 210

Chronic toxicity - aquatic invertebrates EC₁₀, 21 days: 0.236 mg/l,
OECD 211

n-(3-(DIMETHYLAMINO)PROPYL)DOCOSANAMIDE

Toxicity Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 5.45 mg/l,
OECD 203

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.6 mg/l, Daphnia magna
OECD 202

Acute toxicity - aquatic plants EC₅₀, 72 hours: 1.73 mg/l,
OECD 201

(L) LACTIC ACID

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: 130 mg/l, Lepomis macrochirus (Bluegill)
LC₅₀, 96 hour: 130 mg/l, Oncorhynchus mykiss (Rainbow trout)
LOEC, Chronic, 90 day: 2.18 mg/l, Fish
Oreochromis mossambica

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Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 130 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: > 2800 mg/l, Pseudokirchneriella subcapitata EC ₅₀ , 72 hour: 3500 mg/l, Selenastrum capricornutum NOEC, 70 hour: 1900 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EC ₅₀ , 3 hour: > 100 mg/l, Activated sludge
Acute toxicity - terrestrial	LC ₅₀ , 14 day: > 2250 mg/kg, Colinus Virginianus (Bobwhite Quail)

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

FATTY ACIDS, C16-18 AND C18-UNSATD., REACTION PRODUCTS WITH TRIETHANOLAMINE, DI-ME SULFATE-QUATERNIZED

Persistence and degradability The product is readily biodegradable.

Biodegradation - Degradation 78 %: 28 days
OECD 301B

n-(3-(DIMETHYLAMINO)PROPYL)DOCOSANAMIDE

Persistence and degradability The product is readily biodegradable.

(L) LACTIC ACID

Persistence and degradability Readily biodegradable but failing the 10-day window.

Biodegradation - Degradation 64%: 28 days
OECD 301D

Biological oxygen demand 5d: 450 mg/g
20d: 600 mg/g

Chemical oxygen demand 0.9 g O₂/g substance

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

FATTY ACIDS, C16-18 AND C18-UNSATD., REACTION PRODUCTS WITH TRIETHANOLAMINE, DI-ME SULFATE-QUATERNIZED

Bioaccumulative potential No data available on bioaccumulation.

n-(3-(DIMETHYLAMINO)PROPYL)DOCOSANAMIDE

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Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Partition coefficient log Pow: 2.85

(L) LACTIC ACID

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: -0.54

12.4. Mobility in soil

Mobility No information available.

Ecological information on ingredients.**FATTY ACIDS, C16-18 AND C18-UNSATD., REACTION PRODUCTS WITH TRIETHANOLAMINE, DI-ME SULFATE-QUATERNIZED**

Mobility No information available.

n-(3-(DIMETHYLAMINO)PROPYL)DOCOSANAMIDE

Mobility Slightly soluble in water.

(L) LACTIC ACID

Mobility The product is soluble in water.

Surface tension 70.7 mN/m @ °C

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.

Ecological information on ingredients.**FATTY ACIDS, C16-18 AND C18-UNSATD., REACTION PRODUCTS WITH TRIETHANOLAMINE, DI-ME SULFATE-QUATERNIZED**

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

n-(3-(DIMETHYLAMINO)PROPYL)DOCOSANAMIDE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

(L) LACTIC ACID

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

DANOX HC 30**FATTY ACIDS, C16-18 AND C18-UNSATD., REACTION PRODUCTS WITH TRIETHANOLAMINE, DI-ME SULFATE-QUATERNIZED**

Other adverse effects No information available.

n-(3-(DIMETHYLAMINO)PROPYL)DOCOSANAMIDE

Other adverse effects Not known.

(L) LACTIC ACID

Other adverse effects No information available.

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

General information Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (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 2015/830 of 28 May 2015.

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

Canada - DSL/NDSL

Some of the ingredients are listed or exempt.

DSL

All the ingredients are listed or exempt.

NDSL

US - TSCA

Some of the ingredients are listed or exempt.

Australia - AICS

All the ingredients are listed or exempt.

Japan - ENCS

All the ingredients are listed or exempt.

China - IECSC

All the ingredients are listed or exempt.

Philippines – PICCS

All the ingredients are listed or exempt.

New Zealand - NZIOC

All the ingredients are listed or exempt.

Taiwan - TCSI

All the ingredients are listed or exempt.

SECTION 16: Other information

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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.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Classification procedures according to Regulation (EC) 1272/2008

Aquatic Chronic 3 - H412: Calculation method.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

06/07/2022

DANOX HC 30

Version number	6.000
Supersedes date	04/05/2021
SDS number	45531
SDS status	Approved.
Hazard statements in full	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.
Signature	Lisa Bland

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