



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

1.1. Product identifier

Super Degreaser (Detailer) D108 [D10801 D10805]

Product Identification Numbers

14-1000-0182-6 14-1001-5517-6

7100062620 7000085850

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

Identified uses

Automotive.

1.3. Details of the supplier of the safety data sheet

Address: 3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.
Telephone: +353 1 280 3555
E Mail: tox.uk@mmm.com
Website: www.3M.com

1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

The principle of dilution was used to bridge test results for eye damage/irritation. The test results are reflected in the assigned classification.

This material has been tested for skin corrosion/irritation and the test results are reflected in the assigned classification.

CLASSIFICATION:

Substance or Mixture Corrosive to Metals, Category 1 - Met. Corr. 1; H290
Skin Corrosion/ Irritation, Category 1A - Skin Corr. 1A; H314
Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

DANGER.

Symbols

GHS05 (Corrosion) |

Pictograms



Ingredients:

Ingredient	CAS Nbr	EC No.	% by Wt
potassium hydroxide	1310-58-3	215-181-3	1 - 5
tetrasodium ethylene diamine tetraacetate	64-02-8	200-573-9	1 - 5

HAZARD STATEMENTS:

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENTS

Prevention:

P260E Do not breathe vapour or spray.
P280D Wear protective gloves, protective clothing, and eye/face protection.

Response:

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 CENTRE or doctor/physician.

2% of the mixture consists of components of unknown acute dermal toxicity.
2% of the mixture consists of components of unknown acute inhalation toxicity.

Notes on labelling

Updated per Regulation (EC) No. 648/2004 on detergents.
Ingredients required per 648/2004: <5%: Cationic surfactant, EDTA and salts thereof. Contains: Perfumes, benzyl salicylate.

2.3. Other hazards

None known.

This material does not contain any substances that are assessed to be a PBT or vPvB

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Non-Hazardous Ingredients	Mixture	80 - 95	Substance not classified as hazardous
1-propoxypropan-2-ol	(CAS-No.) 1569-01-3 (EC-No.) 216-372-4 (REACH-No.) 01-2119474443-37	1 - 5	Flam. Liq. 3, H226 Eye Irrit. 2, H319
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	(EC-No.) 931-534-0 (REACH-No.) 01-2119513401-57	1 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318
potassium hydroxide	(CAS-No.) 1310-58-3 (EC-No.) 215-181-3	1 - 5	Acute Tox. 3, H301 Skin Corr. 1A, H314 Eye Dam. 1, H318 Met. Corr. 1, H290
tetrasodium ethylene diamine tetraacetate	(CAS-No.) 64-02-8 (EC-No.) 200-573-9 (REACH-No.) 01-2119486762-27	1 - 5	Acute Tox. 4, H302 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT RE 2, H373

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.

Please see section 16 for the full text of any H statements referred to in this section

Specific Concentration Limits

Ingredient	Identifier(s)	Specific Concentration Limits
potassium hydroxide	(CAS-No.) 1310-58-3 (EC-No.) 215-181-3	(C >= 5%) Skin Corr. 1A, H314 (2% <= C < 5%) Skin Corr. 1B, H314 (0.5% <= C < 2%) Skin Irrit. 2, H315 (C >= 2%) Eye Dam. 1, H318 (0.5% <= C < 2%) Eye Irrit. 2, H319
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	(EC-No.) 931-534-0	(C >= 5%) Skin Irrit. 2, H315 (C >= 38%) Eye Dam. 1, H318 (5% <= C < 38%) Eye Irrit. 2, H319

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

Eye contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If swallowed

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

The most important symptoms and effects based on the CLP classification include:
Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
Carbon dioxide.
Irritant vapours or gases.
Oxides of nitrogen.

Condition

During combustion.
During combustion.
During combustion.
During combustion.

5.3. Advice for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. For large spills, if necessary, get assistance from professional spill clean up team. For small spills, carefully

neutralise spill by adding appropriate dilute acid such as vinegar. Work slowly to avoid boiling or spattering. Continue to add neutralising agent until reaction stops. Let cool before collecting. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Absorb spillage to prevent material damage. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with water. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep out of reach of children. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Keep away from reactive metals (eg. Aluminium, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep only in original container. Store in a corrosive resistant container with a resistant inner liner. Store away from acids. Store away from oxidising agents.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
potassium hydroxide	1310-58-3	Ireland OELs	STEL(15 minutes):2 mg/m3	

Ireland OELs : Ireland. OELs
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

Recommended monitoring procedures:Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

- Full face shield.
- Indirect vented goggles.

Applicable Norms/Standards

Use eye/face protection conforming to EN 166

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended:

Material	Thickness (mm)	Breakthrough Time
Polymer laminate	>0.30	4-8 hours

The glove data presented are based on the substance driving dermal toxicity and the conditions present at the time of testing. Breakthrough time may be altered when the glove is subjected to use conditions that place additional stress on the glove.

Applicable Norms/Standards

Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

- Half facepiece or full facepiece air-purifying respirator suitable for particulates
- Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

Applicable Norms/Standards

Use a respirator conforming to EN 140 or EN 136

Use a respirator conforming to EN 140 or EN 136: filter type P

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Yellow
Odor	Very Slight Acidic
Odour threshold	No data available.
Melting point/freezing point	Not applicable.
Boiling point/boiling range	100 °C

Flammability	Not applicable.
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Flash point	>= 93.3 °C [Test Method:Pensky-Martens Closed Cup]
Autoignition temperature	<i>Not applicable.</i>
Decomposition temperature	<i>No data available.</i>
pH	13 - 13.9
Kinematic Viscosity	<i>No data available.</i>
Water solubility	Complete
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Density	1.025 - 1.045 g/ml
Relative density	1.025 - 1.045 [Ref Std:WATER=1]
Relative Vapour Density	<i>No data available.</i>
Particle Characteristics	<i>Not applicable.</i>

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds

No data available.

Evaporation rate

No data available.

Molecular weight

No data available.

Percent volatile

94.5 % weight [Test Method:Estimated]

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non reactive under normal use conditions

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Strong acids.

Strong oxidising agents.

10.6 Hazardous decomposition products

Substance

None known.

Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

Skin contact

Corrosive (skin burns): Signs/symptoms may include localised redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

Eye contact

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion

Gastrointestinal corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the faeces and/or vomitus may also be seen.

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation-Dust/Mist(4 hr)		No data available; calculated ATE >12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
1-propoxypropan-2-ol	Dermal	Rabbit	LD50 2,805 mg/kg
1-propoxypropan-2-ol	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 11.8 mg/l
1-propoxypropan-2-ol	Ingestion	Rat	LD50 2,500 mg/kg
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Dermal	Rabbit	LD50 6,300 mg/kg
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 52 mg/l
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Ingestion	Rat	LD50 2,079 mg/kg
potassium hydroxide	Dermal	Rabbit	LD50 > 1,260 mg/kg

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potassium hydroxide	Ingestion	Rat	LD50 273 mg/kg
tetrasodium ethylene diamine tetraacetate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1.5 mg/l
tetrasodium ethylene diamine tetraacetate	Ingestion	Rat	LD50 1,658 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	In vitro data	Corrosive
1-propoxypropan-2-ol	Rabbit	Minimal irritation
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Rabbit	Irritant
potassium hydroxide	Rabbit	Corrosive
tetrasodium ethylene diamine tetraacetate	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Overall product	similar health hazards	Corrosive
1-propoxypropan-2-ol	Rabbit	Severe irritant
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Rabbit	Corrosive
potassium hydroxide	Rabbit	Corrosive
tetrasodium ethylene diamine tetraacetate	Rabbit	Corrosive

Skin Sensitisation

Name	Species	Value
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Guinea pig	Not classified
potassium hydroxide	Guinea pig	Not classified
tetrasodium ethylene diamine tetraacetate	Human and animal	Not classified

Respiratory Sensitisation

For the component/components, either no data is currently available or the data is not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
1-propoxypropan-2-ol	In Vitro	Not mutagenic
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	In Vitro	Not mutagenic
potassium hydroxide	In Vitro	Not mutagenic
tetrasodium ethylene diamine tetraacetate	In Vitro	Some positive data exist, but the data are not sufficient for classification
tetrasodium ethylene diamine tetraacetate	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Ingestion	Rat	Not carcinogenic
tetrasodium ethylene diamine tetraacetate	Ingestion	Multiple animal species	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
1-propoxypropan-2-ol	Inhalation	Not classified for development	Rat	NOAEL 3.6 mg/l	during organogenesis
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Ingestion	Not classified for development	Mouse	NOAEL 2 mg/kg/day	during organogenesis
tetrasodium ethylene diamine tetraacetate	Ingestion	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	4 generation
tetrasodium ethylene diamine tetraacetate	Ingestion	Not classified for male reproduction	Rat	NOAEL 250 mg/kg/day	4 generation
tetrasodium ethylene diamine tetraacetate	Ingestion	Not classified for development	Rat	LOAEL 1,000 mg/kg/day	during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
1-propoxypropan-2-ol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	LOAEL 10.8 mg/l	6 hours
1-propoxypropan-2-ol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
1-propoxypropan-2-ol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Rat	LOAEL 1,770 mg/kg	not applicable
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
potassium hydroxide	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL not available	
tetrasodium ethylene diamine tetraacetate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
1-propoxypropan-2-ol	Inhalation	liver kidney and/or bladder	Not classified	Rat	NOAEL 9.5 mg/l	11 days
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Ingestion	endocrine system hematopoietic system liver immune system eyes kidney and/or bladder	Not classified	Rat	NOAEL 195 mg/kg/day	2 years
tetrasodium ethylene diamine tetraacetate	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.003 mg/l	13 weeks
tetrasodium ethylene diamine tetraacetate	Inhalation	liver heart skin endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system immune system muscles nervous system eyes kidney and/or bladder vascular system	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
tetrasodium ethylene diamine tetraacetate	Ingestion	hematopoietic system liver	Not classified	Rat	NOAEL 2,500	13 weeks

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					mg/kg/day	
tetrasodium ethylene diamine tetraacetate	Ingestion	heart gastrointestinal tract muscles kidney and/or bladder respiratory system	Not classified	Rat	NOAEL 5,000 mg/kg/day	13 weeks

Aspiration Hazard

For the component/components, either no data is currently available or the data is not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

SECTION 12: Ecological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available.

Material	CAS #	Organism	Type	Exposure	Test endpoint	Test result
1-propoxypropan-2-ol	1569-01-3	Green algae	Experimental	96 hours	EC50	1,466 mg/l
1-propoxypropan-2-ol	1569-01-3	Rainbow trout	Experimental	96 hours	LC50	>100 mg/l
1-propoxypropan-2-ol	1569-01-3	Water flea	Experimental	48 hours	LC50	>100 mg/l
potassium hydroxide	1310-58-3	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	Diatom	Estimated	72 hours	EC50	1.97 mg/l
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	Zebra Fish	Estimated	96 hours	LC50	4.2 mg/l
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	Water flea	Experimental	48 hours	EC50	4.53 mg/l
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	Diatom	Estimated	72 hours	EC10	1.2 mg/l
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	Water flea	Experimental	21 days	NOEC	2.4 mg/l
tetrasodium ethylene diamine tetraacetate	64-02-8	Bluegill	Experimental	96 hours	LC50	401.7 mg/l
tetrasodium ethylene diamine tetraacetate	64-02-8	Green algae	Experimental	72 hours	ErC50	>100 mg/l

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tetrasodium ethylene diamine tetraacetate	64-02-8	Water flea	Experimental	24 hours	EC50	610 mg/l
tetrasodium ethylene diamine tetraacetate	64-02-8	Water flea	Analogous Compound	21 days	NOEC	25 mg/l
tetrasodium ethylene diamine tetraacetate	64-02-8	Zebra Fish	Analogous Compound	35 days	NOEC	35.1 mg/l
tetrasodium ethylene diamine tetraacetate	64-02-8	Green algae	Experimental	72 hours	ErC10	>100 mg/l
tetrasodium ethylene diamine tetraacetate	64-02-8	Plant	Analogous Compound	21 days	NOEC	84 mg/kg (Dry Weight)
tetrasodium ethylene diamine tetraacetate	64-02-8	Redworm	Analogous Compound	14 days	LC50	156.46 mg/kg (Dry Weight)
tetrasodium ethylene diamine tetraacetate	64-02-8	Activated sludge	Experimental	30 minutes	EC10	>1,000 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
1-propoxypropan-2-ol	1569-01-3	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	91.5 %removal of DOC	OECD 301A - DOC Die Away Test
potassium hydroxide	1310-58-3	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	Experimental Biodegradation	28 days	CO2 evolution	80 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
tetrasodium ethylene diamine tetraacetate	64-02-8	Analogous Compound Biodegradation	28 days	BOD	2 %BOD/Tho D	OECD 301D - Closed bottle test
tetrasodium ethylene diamine tetraacetate	64-02-8	Experimental Aquatic Inherent Biodegrad.	28 days	Dissolv. Organic Carbon Deplet	<10 %removal of DOC	OECD 302B Zahn-Wellens/EVPA
tetrasodium ethylene diamine tetraacetate	64-02-8	Analogous Compound Soil Inherent Biodegradability	315 days	CO2 evolution	70.5 %CO2 evolution/THC O2 evolution	

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
1-propoxypropan-2-ol	1569-01-3	Estimated Bioconcentration		Log Kow	0.62	
potassium hydroxide	1310-58-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	Estimated Bioconcentration		Log Kow	-1.3	
tetrasodium ethylene diamine tetraacetate	64-02-8	Analogous Compound BCF - Fish	28 days	Bioaccumulation factor	1.8	
tetrasodium ethylene diamine tetraacetate	64-02-8	Analogous Compound Bioconcentration		Log Kow	-4.3	

12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
1-propoxypropan-2-ol	1569-01-3	Estimated Mobility in Soil	Koc	2 l/kg	Episuite™
tetrasodium ethylene diamine tetraacetate	64-02-8	Analogous Compound Mobility in Soil	Koc	3.35 l/kg	

12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

12.6. Endocrine disrupting properties

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

12.7. Other adverse effects

No information available.

The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of the manufacturer, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/CE and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor

EU waste code (product as sold)

- 070601* Aqueous washing liquids and mother liquors
- 20 01 29* Detergents containing dangerous substances

SECTION 14: Transportation information

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number or ID number	UN1814	UN1814	UN1814
14.2 UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	III	III	III

14.5 Environmental hazards	Not Environmentally Hazardous	Not applicable	Not a Marine Pollutant
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
14.7 Marine Transport in bulk according to IMO instruments	No data available.	No data available.	No data available.
Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.
ADR Classification Code	C5	Not applicable.	Not applicable.
IMDG Segregation Code	Not applicable.	Not applicable.	18 - ALKALIS

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

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

Global inventory status

Contact manufacturer for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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Seveso hazard categories, Annex 1, Part 1

None

Seveso named dangerous substances, Annex 1, Part 2

None

Regulation (EU) No 649/2012

No chemicals listed

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information

List of relevant H statements

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
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 through prolonged or repeated exposure.

Revision information:

CLP: Ingredient table information was added.

Section 3: Composition/ Information of ingredients table information was modified.

Section 03: SCL table information was modified.

Section 5: Fire - Advice for fire fighters information information was modified.

Section 5: Fire - Extinguishing media information information was modified.

Section 8: glove data value information was modified.

Section 8: Respiratory protection - recommended respirators information information was modified.

Section 8: Skin protection - protective clothing information information was modified.

Section 9: Flammability (solid, gas) information information was deleted.

Section 09: Flammability information information was added.

Section 09: Odor information was modified.

Section 13: Standard Phrase Category Waste GHS information was modified.

Section 14 Segregation – Regulation Data information was modified.

Section 15: Label remarks and EU Detergent information was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

Meguiar's, Inc. Ireland SDSs are available at www.3M.com