



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

Convertible Top Cleaner G20 [G2016]

Product Identification Numbers

14-1000-0634-6

7000043825

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.

This material has been tested for eye damage/irritation and 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:

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315

Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318

Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

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) | GHS09 (Environment) |

Pictograms

Ingredients:

Ingredient	CAS Nbr	EC No.	% by Wt
Dodecyltrimethylamine oxide	1643-20-5	216-700-6	< 5
disodium metasilicate	6834-92-0	229-912-9	< 5

HAZARD STATEMENTS:

H315	Causes skin irritation.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS
General:

P102	Keep out of reach of children.
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Prevention:

P273	Avoid release to the environment.
P280A	Wear eye/face protection.

Response:

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.

Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.
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12% 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% Non-ionic surfactants, cationic surfactant, amphoteric surfactant, EDTA and salts thereof. Contains: Perfumes, benzyl salicylate.

Skin and Eye classification based on test data.

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	65 - 95	Substance not classified as hazardous
disodium metasilicate	(CAS-No.) 6834-92-0 (EC-No.) 229-912-9 (REACH-No.) 01-2119449811-37	< 5	Skin Corr. 1B, H314 STOT SE 3, H335 Met. Corr. 1, H290
Dodecyldimethylamine oxide	(CAS-No.) 1643-20-5 (EC-No.) 216-700-6	< 5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1
sodium carbonate	(CAS-No.) 497-19-8 (EC-No.) 207-838-8 (REACH-No.) 01-2119485498-19	< 5	Eye Irrit. 2, H319
Alcohols, C9-11, ethoxylated	(CAS-No.) 68439-46-3	< 5	Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides	(CAS-No.) 70750-47-9 (EC-No.) 274-846-6	< 3	Aquatic Acute 1, H400,M=10 Aquatic Chronic 2, H411 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
tetrasodium ethylene diamine tetraacetate	(CAS-No.) 64-02-8 (EC-No.) 200-573-9 (REACH-No.) 01-2119486762-27	< 2	Acute Tox. 4, H302 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT RE 2, H373

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

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 wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

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. If you feel unwell, get 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:

Irritation to the skin (localized redness, swelling, itching, and dryness). 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 carbon dioxide or dry chemical extinguisher 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

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	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. 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. 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 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

No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

Biological limit values

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

Predicted no effect concentrations (PNEC)

Ingredient	Degradation Product	Compartment	PNEC
sodium carbonate		Freshwater	100 mg/l

8.2. Exposure controls

In addition, refer to the annex for more information.

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	No data available	No data available

Applicable Norms/Standards

Use gloves tested to EN 374

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 organic vapours and particulates

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: filter types A & P

8.2.3. Environmental exposure controls

Refer to Annex

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Clear Colorless
Odor	Pleasant Odor
Odour threshold	<i>No data available.</i>
Melting point/freezing point	<i>Not applicable.</i>
Boiling point/boiling range	100 °C
Flammability	Not applicable.
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Flash point	>= 93.3 °C [Test Method:Pensky-Martens Closed Cup]
Autoignition temperature	<i>No data available.</i>
Decomposition temperature	<i>No data available.</i>
pH	12.5 - 13.5 Units not available or not applicable.
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 g/cm ³
Relative density	1 [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

6 g/l

Evaporation rate

No data available.

Molecular weight

No data available.

Percent volatile

60.4 % weight

SECTION 10: Stability and reactivity

10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Temperatures above the boiling point.

10.5 Incompatible materials

Strong acids.

Strong oxidising agents.

10.6 Hazardous decomposition products

Substance

Condition

None known.

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

Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, dryness, cracking, blistering, and pain.

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 irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

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
disodium metasilicate	Dermal	Rabbit	LD50 > 4,640 mg/kg
disodium metasilicate	Ingestion	Rat	LD50 500 mg/kg
Alcohols, C9-11, ethoxylated	Dermal	similar compounds	LD50 > 2,000 mg/kg
Alcohols, C9-11, ethoxylated	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 1.6 mg/l
Alcohols, C9-11, ethoxylated	Ingestion	similar compounds	LD50 3,488 mg/kg
Dodecyltrimethylamine oxide	Dermal	similar compounds	LD50 > 2,000 mg/kg
Dodecyltrimethylamine oxide	Ingestion	similar compounds	LD50 1,064 mg/kg
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides	Dermal	Rabbit	LD50 >810 mg/kg
sodium carbonate	Dermal	Rabbit	LD50 > 2,000 mg/kg
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides	Ingestion	Rat	LD50 >300, <2000 mg/kg
sodium carbonate	Ingestion	Rat	LD50 2,800 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
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ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	Professional judgement	Irritant
Alcohols, C9-11, ethoxylated	similar compounds	Minimal irritation
Dodecyldimethylamine oxide	similar compounds	Irritant
disodium metasilicate	Rabbit	Corrosive
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides	Rabbit	Corrosive
sodium carbonate	Rabbit	No significant irritation
tetrasodium ethylene diamine tetraacetate	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Overall product	In vitro data	Corrosive
Alcohols, C9-11, ethoxylated	Professional judgement	Moderate irritant
Dodecyldimethylamine oxide	similar compounds	Corrosive
disodium metasilicate	In vitro data	Corrosive
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides	similar health hazards	Corrosive
sodium carbonate	Rabbit	Corrosive
tetrasodium ethylene diamine tetraacetate	Rabbit	Corrosive

Skin Sensitisation

Name	Species	Value
Alcohols, C9-11, ethoxylated	Guinea pig	Not classified
Dodecyldimethylamine oxide	Guinea pig	Not classified
disodium metasilicate	Mouse	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
Alcohols, C9-11, ethoxylated	In Vitro	Not mutagenic
Dodecyldimethylamine oxide	In Vitro	Not mutagenic

disodium metasilicate	In Vitro	Not mutagenic
disodium metasilicate	In vivo	Not mutagenic
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides	In Vitro	Not mutagenic
sodium carbonate	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
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
Alcohols, C9-11, ethoxylated	Dermal	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	2 generation
Alcohols, C9-11, ethoxylated	Dermal	Not classified for development	Rat	NOAEL 250 mg/kg/day	2 generation
Alcohols, C9-11, ethoxylated	Dermal	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	2 generation
disodium metasilicate	Ingestion	Not classified for development	Mouse	NOAEL 200 mg/kg/day	during gestation
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides	Ingestion	Not classified for female reproduction	Rat	NOAEL 50 mg/kg/day	premating into lactation
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides	Ingestion	Not classified for male reproduction	Rat	NOAEL 50 mg/kg/day	28 days
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides	Ingestion	Not classified for development	Rat	NOAEL 50 mg/kg/day	premating into lactation
sodium carbonate	Ingestion	Not classified for development	Mouse	NOAEL 340 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
Alcohols, C9-11, ethoxylated	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Dodecyltrimethylamine oxide	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available.	
disodium metasilicate	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
tetrasodium ethylene diamine tetraacetate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for	similar health	NOAEL Not available	

			classification	hazards		
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Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Alcohols, C9-11, ethoxylated	Dermal	kidney and/or bladder heart hematopoietic system liver nervous system respiratory system	Not classified	Rat	NOAEL 125 mg/kg/day	13 weeks
Dodecyltrimethylamine oxide	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	similar compounds	NOAEL 88 mg/kg/day	90 days
disodium metasilicate	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Dog	LOAEL 2,400 mg/kg/day	4 weeks
disodium metasilicate	Ingestion	endocrine system blood	Not classified	Rat	NOAEL 804 mg/kg/day	3 months
disodium metasilicate	Ingestion	heart liver	Not classified	Rat	NOAEL 1,259 mg/kg/day	8 weeks
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 30 mg/kg/day	90 days
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides	Ingestion	endocrine system hematopoietic system liver kidney and/or bladder	Not classified	Rat	NOAEL 100 mg/kg/day	90 days
sodium carbonate	Inhalation	respiratory system	Not classified	Rat	LOAEL 0.07 mg/l	3 months
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 mg/kg/day	13 weeks
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
Alcohols, C9-11, ethoxylated	68439-46-3	Rainbow trout	Analogous Compound	96 hours	LC50	5 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Green algae	Experimental	72 hours	EbC50	1.4 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Water flea	Experimental	48 hours	EC50	2.5 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Green algae	Analogous Compound	72 hours	ErC10	1.05 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Water flea	Analogous Compound	21 days	NOEC	0.107 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Activated sludge	Analogous Compound	3 hours	EC50	140 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Wheat	Analogous Compound	19 days	EC50	>100 mg/kg (Dry Weight)
Dodecyldimethylamine oxide	1643-20-5	Green algae	Experimental	72 hours	ErC50	0.11 mg/l
Dodecyldimethylamine oxide	1643-20-5	Medaka	Experimental	96 hours	LC50	30 mg/l
Dodecyldimethylamine oxide	1643-20-5	Water flea	Experimental	48 hours	EC50	2.2 mg/l
Dodecyldimethylamine oxide	1643-20-5	Fathead minnow	Experimental	302 days	NOEC	0.42 mg/l
Dodecyldimethylamine oxide	1643-20-5	Green algae	Experimental	72 hours	NOEC	0.0049 mg/l
Dodecyldimethylamine oxide	1643-20-5	Water flea	Experimental	21 days	NOEC	0.36 mg/l
sodium carbonate	497-19-8	Algae or other aquatic plants	Experimental	96 hours	EC50	242 mg/l
sodium carbonate	497-19-8	Bluegill	Experimental	96 hours	LC50	300 mg/l
sodium carbonate	497-19-8	Water flea	Experimental	48 hours	EC50	200 mg/l
disodium metasilicate	6834-92-0	Green algae	Estimated	72 hours	EC50	>345.4 mg/l
disodium metasilicate	6834-92-0	Zebra Fish	Experimental	96 hours	LC50	210 mg/l
disodium metasilicate	6834-92-0	Green algae	Estimated	72 hours	EC10	34.5 mg/l
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl) methyl, chlorides	70750-47-9	Activated sludge	Experimental	3 hours	EC10	10.9 mg/l
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl) methyl, chlorides	70750-47-9	Green algae	Experimental	72 hours	EC50	0.414 mg/l
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl) methyl, chlorides	70750-47-9	Zebra Fish	Experimental	96 hours	LC50	1.84 mg/l

Quaternary ammonium compounds, coco alkylbis(hydroxyethyl) methyl, chlorides	70750-47-9	Green algae	Experimental	72 hours	ErC10	0.121 mg/l
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl) methyl, chlorides	70750-47-9	Water flea	Experimental	21 days	NOEC	0.268 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
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
Alcohols, C9-11, ethoxylated	68439-46-3	Analogous Compound Biodegradation	28 days	BOD	72 %CO2 evolution/THC O2 evolution	ISO 14593 Inorg C Headspace
Dodecyltrimethylamine oxide	1643-20-5	Experimental Biodegradation	28 days	CO2 evolution	95.27 %CO2 evolution/THC O2 evolution	OECD 301B - Modified Sturm or CO2
sodium carbonate	497-19-8	Data not available - insufficient	N/A	N/A	N/A	N/A
disodium metasilicate	6834-92-0	Data not available - insufficient	N/A	N/A	N/A	N/A
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
Alcohols, C9-11, ethoxylated	68439-46-3	Modeled Bioconcentration		Bioaccumulation factor	31	Catalogic™
Alcohols, C9-11, ethoxylated	68439-46-3	Analogous Compound Bioconcentration		Log Kow	2.72	OECD 123 log Kow slow stir
Dodecyltrimethylamine oxide	1643-20-5	Estimated Bioconcentration		Log Kow	1.85	
sodium carbonate	497-19-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
disodium metasilicate	6834-92-0	Data not available	N/A	N/A	N/A	N/A

		or insufficient for classification				
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides	70750-47-9	Experimental Biodegradation	28 days	BOD	70 %BOD/ThOD	OECD 301D - Closed bottle test
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, chlorides	70750-47-9	Estimated Bioconcentration		Log Kow	-0.12	
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
Alcohols, C9-11, ethoxylated	68439-46-3	Modeled Mobility in Soil	Koc	150 l/kg	Episuite™
Dodecyltrimethylamine oxide	1643-20-5	Modeled Mobility in Soil	Koc	1,100 l/kg	ACD/Labs ChemSketch™
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. 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)

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	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class(es)	9	9	9
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	M6	Not applicable.	Not applicable.
IMDG Segregation Code	Not applicable.	Not applicable.	NONE

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 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.

DIRECTIVE 2012/18/EU

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**

H290	May be corrosive to metals.
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.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Revision information:

CLP: Ingredient table information was modified.

Label: CLP Percent Unknown information was modified.

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

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

Section 09: Flammability information information was added.

Section 11: Acute Toxicity table information was modified.

Section 11: Germ Cell Mutagenicity Table information was modified.

Section 11: Reproductive Toxicity Table information was modified.

Section 11: Serious Eye Damage/Irritation Table information was modified.

Section 11: Skin Corrosion/Irritation Table information was modified.

Section 11: Skin Sensitization Table information was modified.

Section 11: Target Organs - Repeated Table information was modified.

Section 11: Target Organs - Single Table information was modified.

Section 12: Component ecotoxicity information information was modified.

Section 12: Mobility in soil information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12: Bioaccumulative potential information information was modified.

Annex

1. Title	
Substance identification	sodium carbonate; EC No. 207-838-8; CAS Nbr 497-19-8;
Exposure Scenario Name	Professional Use of Cleaner
Lifecycle Stage	Widespread use by professional workers
Contributing activities	PROC 10 -Roller application or brushing PROC 11 -Non industrial spraying PROC 13 -Treatment of articles by dipping and pouring ERC 08a -Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC 08d -Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
Processes, tasks and activities covered	Application of product with a roller or brush. Manual application of product. Spraying of substances/mixtures.
2. Operational conditions and risk management measures	
Operating Conditions	Physical state: Solid. General operating conditions: Duration of use: 8 hours/day; Frequency of exposure at workplace [for one worker]: Daily; Indoor use; Outdoor use; Task: PROC10; Duration of use: 15 min - 1 hour task;
Risk management measures	Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: None needed; Environmental: None needed;
Waste management measures	No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:
3. Prediction of exposure	
Prediction of exposure	Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.

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