Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name	:	GREASELIFT
Product code	:	116864E
Use of the Substance/Mixture	:	Grill Cleaner
Substance type:	:	Mixture
		For professional users only.
Product dilution information	:	16.8 %

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

Identified uses	:	Kitchen cleaner. Manual process Oven/Grill Cleaner. Manual process Oven/Grill Cleaner. Spray and wipe manual process
Recommended restrictions on use	:	Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company	:	Ecolab Ltd. PO Box 11; Winnington Avenue Northwich, Cheshire, United Kingdom CW8 4DX + 44 (0)1606 74488 ccs@ecolab.com

1.4 Emergency telephone number

Emergency telephone number	:	+441618841235 +32-(0)3-575-5555 Trans-European
Poison Information Centre telephone number	:	For medical professionals only: 0344 892 0111

Date of Compilation/Revision : 05.02.2025
Version : 6.0

Section: 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Product AS SOLD

Acute toxicity, Category 4	H302

Skin corrosion, Category 1	H314
Skin sensitization, Category 1	H317
Serious eye damage, Category 1	H318

Product AT USE DILUTION

Skin sensitization, Category 1	H317

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Product AS SOLD

Hazard pictograms :

Signal Word : Danger

Hazard Statements	: H302	Harmful if swallowed.
	H314	Causes severe skin burns and eye damage.
	H317	May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**

P280 Wear protective gloves/ eye protection/ 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 CENTER/doctor.

Hazardous components which must be listed on the label:
Benzyl alcohol
2-butoxyethanol
isopropanolamine
2-(2-aminoethoxy)ethanol

Product AT USE DILUTION

Hazard pictograms :

Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**

P280 Wear protective gloves.

2.3 Other hazards

Product AS SOLD

None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Product AS SOLD
Hazardous components

Chemical Name	CAS-No. EC-No. REACH No.	Classification REGULATION (EC) No 1272/2008	Concentration : [%]
Benzyl alcohol	100-51-6 202-859-9 01-2119492630-38	Acute toxicity Category 4; H302 Eye irritation Category 2; H319 Skin sensitization Sub-category 1B; H317	>= 30 - < 50
2-butoxyethanol	111-76-2 203-905-0 01-2119475108-36	Acute toxicity Category 4; H302 Acute toxicity Category 3; H331 Skin irritation Category 2; H315 Eye irritation Category 2; H319	>= 1 - < 10
9-octadecenoic acid (z)-, compd. with 2-aminoethanol (1:1)	2272-11-9 218-878-0 01-2119958940-28	Eye irritation Category 2; H319	>= 1 - < 10
Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-hydroxy-	26403-74-7	Eye irritation Category 2; H319	>= 1 - < 10
isopropanolamine	78-96-6 201-162-7 01-2119475331-43	Skin corrosion Category 1B; H314	>= 5 - < 10
2-(2-aminoethoxy)ethanol	929-06-6 213-195-4 01-2119520701-52	Skin corrosion Sub-category 1B; H314 Serious eye damage Category 1; H318	>= 5 - < 10
Benzenesulfonic acid, C10-16-alkyl derivs., potassium salts	68584-27-0 271-534-1 REACH EXEMPTED	Acute toxicity Category 4; H302 Eye irritation Category 2; H319 Chronic aquatic toxicity Category 3; H412	>= 2.5 - < 10
Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt	68891-38-3 500-234-8 01-2119488639-16	Skin irritation Category 2; H315 Serious eye damage Category 1; H318 Chronic aquatic toxicity Category 3; H412 Serious eye damage/eye irritation Category 1 10 - 100 % Serious eye damage/eye irritation Category 2A > 5 - < 10 %	>= 3 - < 5
monoethanolamine	141-43-5 205-483-3 01-2119486455-28	Acute toxicity Category 4; H302 Acute toxicity Category 4; H332 Acute toxicity Category 4; H312 Skin corrosion Sub-category 1B; H314 Serious eye damage Category 1; H318 Chronic aquatic toxicity Category 3; H412 Specific target organ toxicity - single exposure Category 3; H335 Specific target organ toxicity - single exposure Category 3 H335 5 - 100 %	>= 3 - < 5
Amines, C12-14 alkyldimethyl, N-oxides	308062-28-4 01-2119490061-47	Acute toxicity Category 4; H302 Skin irritation Category 2; H315	>= 0.25 - < 1

		Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 2; H411 M = 1	

Product AT USE DILUTION
Hazardous components

Chemical Name	CAS-No. EC-No. REACH No.	Classification REGULATION (EC) No 1272/2008	Concentration : [%]
Benzyl alcohol	100-51-6 202-859-9 01-2119492630-38	Acute toxicity Category 4; H302 Eye irritation Category 2; H319 Skin sensitization Sub-category 1B; H317	>= 1 - < 10
2-butoxyethanol	111-76-2 203-905-0 01-2119475108-36	Acute toxicity Category 4; H302 Acute toxicity Category 3; H331 Skin irritation Category 2; H315 Eye irritation Category 2; H319	>= 1 - < 10
9-octadecenoic acid (z)-, compd. with 2-aminoethanol (1:1)	2272-11-9 218-878-0 01-2119958940-28	Eye irritation Category 2; H319	>= 1 - < 10
Amines, C12-14 alkyldimethyl, N-oxides	308062-28-4 01-2119490061-47	Acute toxicity Category 4; H302 Skin irritation Category 2; H315 Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 2; H411 M = 1	>= 0.1 - < 0.25
Substances with a workplace exposure limit :			
monoethanolamine	141-43-5 205-483-3 01-2119486455-28	Acute toxicity Category 4; H302 Acute toxicity Category 4; H332 Acute toxicity Category 4; H312 Skin corrosion Sub-category 1B; H314 Serious eye damage Category 1; H318 Chronic aquatic toxicity Category 3; H412 Specific target organ toxicity - single exposure Category 3; H335 Specific target organ toxicity - single exposure Category 3 H335 5 - 100 %	>= 0.25 - < 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section: 4. FIRST AID MEASURES

4.1 Description of first aid measures

Product AS SOLD

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed	:	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
If inhaled	:	Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Product AT USE DILUTION		
In case of eye contact	:	Rinse with plenty of water.
In case of skin contact	:	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
If swallowed	:	Rinse mouth. Get medical attention if symptoms occur.
If inhaled	:	Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of immediate medical attention and special treatment needed

Treatment	:	Treat symptomatically.

Section: 5. FIREFIGHTING MEASURES

Product AS SOLD

5.1 Extinguishing media

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	Not flammable or combustible.
Hazardous combustion products	:	Depending on combustion properties, decomposition products may include following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides metal oxides

5.3 Advice for firefighters

Special protective equipment for firefighters	:	Use personal protective equipment.
Further information	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of

fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Product AS SOLD

Advice for non-emergency personnel	:	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Advice for emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

Product AT USE DILUTION

Advice for non-emergency personnel	:	Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Advice for emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

6.2 Environmental precautions

Product AS SOLD

Environmental precautions	:	Do not allow contact with soil, surface or ground water.

Product AT USE DILUTION

Environmental precautions	:	Do not allow contact with soil, surface or ground water.

6.3 Methods and materials for containment and cleaning up

Product AS SOLD

Methods for cleaning up	:	Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION

Methods for cleaning up	:	Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

6.4 Reference to other sections

See Section 1 for emergency contact information.
For personal protection see section 8.
See Section 13 for additional waste treatment information.

Section: 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Product AS SOLD

Advice on safe handling	:	Do not ingest. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not breathe spray, vapour. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Product AT USE DILUTION

Advice on safe handling	:	Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Product AS SOLD

Requirements for storage areas and containers	:	Protect from frost, heat and sunlight. Store at room temperature in the original container. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
Storage temperature	:	5 °C to 40 °C

Product AT USE DILUTION

Requirements for storage areas and containers	:	Protect from frost, heat and sunlight. Store at room temperature in the original container. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

7.3 Specific end uses

Product AS SOLD

Specific use(s)	:	Kitchen cleaner. Manual process Oven/Grill Cleaner. Manual process Oven/Grill Cleaner. Spray and wipe manual process

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Product AS SOLD

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-butoxyethanol	111-76-2	TWA	25 ppm 123 mg/m3	UKCOSSTD

Further information	Sk	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.		
		STEL	50 ppm 246 mg/m3	UKCOSSTD
Further information	Sk	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.		
monoethanolamine	141-43-5	TWA	1 ppm 2.5 mg/m3	UKCOSSTD
Further information	Sk	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.		
		STEL	3 ppm 7.6 mg/m3	UKCOSSTD
Further information	Sk	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.		

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
2-butoxyethanol	111-76-2	butoxyacetic acid: 240 Millimoles per mole creatinine (Urine)	After shift	GB EH40 BAT

DNEL

triethanolamine	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 5 mg/m3 End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 5 mg/m3 End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 6.3 mg/kg bw/day End Use: Workers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 0.14 mg/cm2 End Use: Consumer use Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 1.25 mg/m3 End Use: Consumer use Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 1.25 mg/m3 End Use: Consumer use Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 2.66 mg/kg bw/day End Use: Consumer use Exposure routes: Dermal Potential health effects: Long-term local effects Value: 0.07 mg/cm2

		End Use: Consumer use Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 3.3 mg/kg bw/day
Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 175 mg/m3 End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 2750 mg/m3 End Use: Workers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 0.132 mg/m3 End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 52 mg/m3 End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 1650 mg/m3 End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 0.079 mg/m3 End Use: Consumers Exposure routes: Oral Potential health effects: Long-term systemic effects Value: 15 mg/m3

PNEC

triethanolamine	:	Fresh water Value: 0.32 mg/l Marine water Value: 0.032 mg/l Intermittent use/release Value: 5.12 mg/l Fresh water sediment Value: 1.7 mg/kg Marine sediment Value: 0.17 mg/kg

		Sewage treatment plant Value: 10 mg/l Soil Value: 0.151 mg/kg
Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt	:	Fresh water Value: 0.24 mg/l Marine water Value: 0.024 mg/l Sewage treatment plant Value: 10000 mg/l Fresh water sediment Value: 0.917 mg/kg Marine sediment Value: 0.092 mg/kg Soil Value: 7.5 mg/kg

8.2 Exposure controls

Product AS SOLD
Appropriate engineering controls

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Individual protection measures

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Eye/face protection (EN 166) : Safety goggles
Face-shield

Hand protection (EN 374) : Recommended preventive skin protection
Gloves
Nitrile rubber
butyl-rubber
Breakthrough time: 1 – 4 hours
Minimum thickness for butyl-rubber 0.7 mm for nitrile rubber 0.4 mm or equivalent (please refer to the gloves manufacturer/distributor for advise).
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection : Personal protective equipment comprising: suitable protective

(EN 14605)		gloves, safety goggles and protective clothing including appropriate safety shoes
Respiratory protection (EN 143, 14387)	:	None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Product AT USE DILUTION
Appropriate engineering controls

Engineering measures	:	Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Individual protection measures

Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.
Eye/face protection (EN 166)	:	No special protective equipment required.
Hand protection (EN 374)	:	Recommended preventive skin protection Gloves Nitrile rubber butyl-rubber Breakthrough time: 1 – 4 hours Minimum thickness for butyl-rubber 0.7 mm for nitrile rubber 0.4 mm or equivalent (please refer to the gloves manufacturer/distributor for advise). Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin and body protection (EN 14605)	:	No special protective equipment required.
Respiratory protection (EN 143, 14387)	:	None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Environmental exposure controls

General advice	:	Consider the provision of containment around storage vessels.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

	Product AS SOLD	**Product AT USE DILUTION**

Appearance	:	liquid	liquid
Colour	:	clear, orange	light orange
Odour	:	slight	slight
pH	:	10.5 - 11.5, 100 %	10.1 - 10.9
Flash point	:	96 °C, Does not sustain combustion.	
Odour Threshold	:	Not applicable and/or not determined for the mixture	
Melting point/freezing point	:	Not applicable and/or not determined for the mixture	
Initial boiling point and boiling range	:	> 100 °C	
Evaporation rate	:	Not applicable and/or not determined for the mixture	
Flammability (solid, gas)	:	Not applicable and/or not determined for the mixture	
Upper explosion limit	:	Not applicable and/or not determined for the mixture	
Lower explosion limit	:	Not applicable and/or not determined for the mixture	
Vapour pressure	:	Not applicable and/or not determined for the mixture	
Relative vapour density	:	Not applicable and/or not determined for the mixture	
Relative density	:	1.04 - 1.06	
Water solubility	:	Not applicable and/or not determined for the mixture	
Solubility in other solvents	:	Not applicable and/or not determined for the mixture	
Partition coefficient: n-octanol/water	:	Not applicable and/or not determined for the mixture	
Auto-ignition temperature	:	Not applicable and/or not determined for the mixture	
Thermal decomposition	:	Not applicable and/or not determined for the mixture	
Viscosity, kinematic	:	Not applicable and/or not determined for the mixture	
Explosive properties	:	Not applicable and/or not determined for the mixture	
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.	

9.2 Other information

Not applicable and/or not determined for the mixture

Section: 10. STABILITY AND REACTIVITY

Product AS SOLD

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Acids
Metals

10.6 Hazardous decomposition products

In the event of fire, see Section 5

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product AS SOLD

Information on likely routes of exposure	:	Inhalation, Eye contact, Skin contact

Product

Acute oral toxicity	:	Acute toxicity estimate : 1,977 mg/kg
Acute inhalation toxicity	:	4 h Acute toxicity estimate : > 20 mg/l Test atmosphere: vapour
Acute dermal toxicity	:	Acute toxicity estimate : > 2,000 mg/kg
Skin corrosion/irritation	:	There is no data available for this product.
Serious eye damage/eye irritation	:	There is no data available for this product.
Respiratory or skin sensitization	:	There is no data available for this product.
Carcinogenicity	:	There is no data available for this product.
Reproductive effects	:	There is no data available for this product.
Germ cell mutagenicity	:	There is no data available for this product.
Teratogenicity	:	There is no data available for this product.
STOT - single exposure	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	:	There is no data available for this product.
Aspiration toxicity	:	There is no data available for this product.

Components

Acute oral toxicity	:	Benzyl alcohol LD50 rat: 1,200 mg/kg 2-butoxyethanol LD50 guinea pig: 1,200 mg/kg Acute toxicity estimate : 1,200 mg/kg 9-octadecenoic acid (z)-, compd. with 2-aminoethanol (1:1) LD50

rat: > 2,000 mg/kg

Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-hydroxy-
LD50 rat: > 2,000 mg/kg

isopropanolamine LD50 rat: > 2,000 mg/kg

2-(2-aminoethoxy)ethanol LD50 rat: 3,400 mg/kg

Benzenesulfonic acid, C10-16-alkyl derivs., potassium salts LD50 rat: 1,433 mg/kg
Test substance: Information given is based on data obtained from similar substances.

Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt LD50 rat: 3,350 mg/kg

monoethanolamine LD50 rat: 1,089 mg/kg

Amines, C12-14 alkyldimethyl, N-oxides LD50 rat: 1,064 mg/kg

Components

Acute inhalation toxicity : 2-butoxyethanol 4 h LC50 rat: 3 mg/l
Test atmosphere: vapour
Acute toxicity estimate : 3 mg/l
Test atmosphere: vapour

isopropanolamine 4 h LC50 rat: > 5.19 mg/l
Test atmosphere: dust/mist

monoethanolamine 4 h LC50 rat: > 1.6 mg/l
Test atmosphere: dust/mist

Components

Acute dermal toxicity : 9-octadecenoic acid (z)-, compd. with 2-aminoethanol (1:1) LD50 rabbit: > 2,000 mg/kg

Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt LD50 rat: 8,000 mg/kg

monoethanolamine LD50 rabbit: 1,025 mg/kg

Potential Health Effects

Product AS SOLD

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns. May cause allergic skin reaction.

Ingestion : Harmful if swallowed. Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes : Health injuries are not known or expected under normal use.

Skin	:	May cause allergic skin reaction.
Ingestion	:	Health injuries are not known or expected under normal use.
Inhalation	:	Health injuries are not known or expected under normal use.
Chronic Exposure	:	Health injuries are not known or expected under normal use.

Experience with human exposure

Product AS SOLD

Eye contact	:	Redness, Pain, Corrosion
Skin contact	:	Redness, Pain, Irritation, Corrosion, Allergic reactions
Ingestion	:	Corrosion, Abdominal pain
Inhalation	:	Respiratory irritation, Cough

Product AT USE DILUTION

Eye contact	:	No symptoms known or expected.
Skin contact	:	Redness, Irritation, Allergic reactions
Ingestion	:	No symptoms known or expected.
Inhalation	:	No symptoms known or expected.

Section: 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product AS SOLD

Environmental Effects	:	This product has no known ecotoxicological effects.

Product AT USE DILUTION

Environmental Effects	:	This product has no known ecotoxicological effects.

Product AS SOLD
Product

Toxicity to fish	:	no data available
Toxicity to daphnia and other aquatic invertebrates	:	no data available
Toxicity to algae	:	no data available

Components

Toxicity to fish	:	Benzyl alcohol96 h LC50 Pimephales promelas (fathead minnow): 460 mg/l 2-butoxyethanol96 h LC50 Oncorhynchus mykiss (rainbow trout): 1,474 mg/l 9-octadecenoic acid (z)-, compd. with 2-aminoethanol (1:1)96 h LC50 Fish: 7.44 mg/l Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-hydroxy-96 h LC50: > 100 mg/l

2-(2-aminoethoxy)ethanol96 h LC50 Leuciscus idus (Golden orfe): 460 mg/l

Benzenesulfonic acid, C10-16-alkyl derivs., potassium salts96 h LC50 Lepomis macrochirus (Bluegill sunfish): 1.67 mg/l
Test substance: Information given is based on data obtained from similar substances.

Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt96 h LC50 Danio rerio (zebra fish): 7.1 mg/l

Amines, C12-14 alkyldimethyl, N-oxides96 h LC50: 2.67 mg/l

Components

Toxicity to daphnia and other aquatic invertebrates : Benzyl alcohol48 h EC50 Daphnia magna (Water flea): 230 mg/l

2-butoxyethanol48 h EC50 Daphnia magna (Water flea): 1,800 mg/l

2-(2-aminoethoxy)ethanol48 h EC50 Daphnia magna (Water flea): 189 mg/l

Benzenesulfonic acid, C10-16-alkyl derivs., potassium salts48 h EC50 Daphnia magna (Water flea): 1.62 mg/l
Test substance: Information given is based on data obtained from similar substances.

Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt48 h EC50 Daphnia magna (Water flea): 7.4 mg/l

monoethanolamine48 h EC50 Aquatic Invertebrate: 65 mg/l

Amines, C12-14 alkyldimethyl, N-oxides48 h EC50 Daphnia magna (Water flea): 3.1 mg/l

Components

Toxicity to algae : Benzyl alcohol72 h EC50 Aquatic Plant: 770 mg/l

2-butoxyethanol72 h EC50 Pseudokirchneriella subcapitata (green algae): 623 mg/l

isopropanolamine72 h EC50: 32.7 mg/l

2-(2-aminoethoxy)ethanol72 h EC50 Desmodesmus subspicatus (green algae): 202 mg/l

Benzenesulfonic acid, C10-16-alkyl derivs., potassium salts96 h EC50 Selenastrum capricornutum (green algae): 29 mg/l
Test substance: Information given is based on data obtained from similar substances.

Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt72 h EC50 Desmodesmus subspicatus (green algae): 27.7 mg/l

Amines, C12-14 alkyldimethyl, N-oxides72 h LC50: 0.143 mg/l
72 h NOEC: 0.067 mg/l

12.2 Persistence and degradability

Product

Biodegradability : The surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC

Components

Biodegradability : Benzyl alcoholResult: Readily biodegradable.

2-butoxyethanolResult: Readily biodegradable.

9-octadecenoic acid (z)-, compd. with 2-aminoethanol (1:1)Result: Readily biodegradable.

Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-hydroxy-Result: Readily biodegradable.

isopropanolamineResult: Readily biodegradable.

2-(2-aminoethoxy)ethanolResult: Biodegradable

Benzenesulfonic acid, C10-16-alkyl derivs., potassium saltsResult: Readily biodegradable.

Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium saltResult: Readily biodegradable.

monoethanolamineResult: Readily biodegradable.

Amines, C12-14 alkyldimethyl, N-oxidesResult: Readily biodegradable.

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste.Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.1 Waste treatment methods

Product AS SOLD

Product	:	Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations. Dispose of wastes in an approved waste disposal facility.
Contaminated packaging	:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.
Guidance for Waste Code selection	:	Organic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.

Product AT USE DILUTION

Product	:	Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations. Dispose of wastes in an approved waste disposal facility.
Contaminated packaging	:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

Section: 14. TRANSPORT INFORMATION

Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

14.1 UN number	:	3267
14.2 UN proper shipping name	:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2-(2-aminoethoxy)ethanol, isopropanolamine)
14.3 Transport hazard class(es)	:	8
14.4 Packing group	:	III
14.5 Environmental hazards	:	No
14.6 Special precautions for user	:	None

Air transport (IATA)

14.1 UN number	:	3267
14.2 UN proper shipping name	:	Corrosive liquid, basic, organic, n.o.s.

(2-(2-aminoethoxy)ethanol, isopropanolamine)

14.3 Transport hazard class(es)	:	8
14.4 Packing group	:	III
14.5 Environmental hazards	:	No
14.6 Special precautions for user	:	None

Sea transport (IMDG/IMO)

14.1 UN number	:	3267
14.2 UN proper shipping name	:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2-(2-aminoethoxy)ethanol, isopropanolamine)
14.3 Transport hazard class(es)	:	8
14.4 Packing group	:	III
14.5 Environmental hazards	:	No
14.6 Special precautions for user	:	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	:	Not applicable.

Section: 15. REGULATORY INFORMATION

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

according to Detergents Regulation EC 648/2004	:	5 % or over but less than 15 %: Anionic surfactants, Soap less than 5 %: Non-ionic surfactants Other constituents: Perfumes Allergens: Benzyl alcohol
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	:	Not applicable.
Candidate List of Substances of Very High Concern for Authorisation	:	Not applicable.

National Regulations

Take note of Dir 94/33/EC on the protection of young people at work.

Other regulations	:	The Chemicals (Hazard Information and Packaging for Supply) Regulations. The Control of Substances Hazardous to Health Regulations. Health and Safety at Work Act.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out on the product.

Section: 16. OTHER INFORMATION

Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

Classification	Justification
Acute toxicity 4, H302	Calculation method
Skin corrosion 1, H314	Based on product data or assessment
Skin sensitization 1, H317	Calculation method
Serious eye damage 1, H318	Based on product data or assessment

Full text of H-Statements

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Annex: Exposure Scenarios

Exposure Scenario: Oven/Grill Cleaner. Manual process

Life Cycle Stage	:	Widespread use by professional workers	
Product category	:	**PC35**	Washing and cleaning products (including solvent based products)

Contributing scenario controlling environmental exposure for:

Environmental release category	:	**ERC8a**	Wide dispersive indoor use of processing aids in open systems
Daily amount per site	:	7.5 kg	
Type of Sewage Treatment Plant	:	Municipal sewage treatment plant	

Contributing scenario controlling worker exposure for:

Process category	:	**PROC10**	Roller application or brushing
Exposure duration	:	480 min	
Operational conditions and risk management measures	:	Indoor	
		Local Exhaust Ventilation is not required	
General ventilation		Ventilation rate per hour	1
Respiratory Protection	:	see section 8	
Skin Protection	:	see section 8	

Exposure Scenario: Oven/Grill Cleaner. Spray and wipe manual process

Life Cycle Stage	:	Widespread use by professional workers

Product category	:	**PC35**	Washing and cleaning products (including solvent based products)

Contributing scenario controlling environmental exposure for:

Environmental release category	:	**ERC8a**	Wide dispersive indoor use of processing aids in open systems
Daily amount per site	:	7.5 kg	
Type of Sewage Treatment Plant	:	Municipal sewage treatment plant	

Contributing scenario controlling worker exposure for:

Process category	:	**PROC10**	Roller application or brushing
Exposure duration	:	480 min	
Operational conditions and risk management measures	:	Indoor	
		Local Exhaust Ventilation is not required	
General ventilation		Ventilation rate per hour	1
Respiratory Protection	:	see section 8	
Skin Protection	:	see section 8	

Contributing scenario controlling worker exposure for:

Process category	:	**PROC11**	Non industrial spraying
Exposure duration	:	60 min	
Operational conditions and risk management measures	:	Indoor	
		Local Exhaust Ventilation is not required	
General ventilation		Ventilation rate per hour	1
Skin Protection	:	see section 8	
Respiratory Protection	:	see section 8	

Exposure Scenario: Kitchen cleaner. Manual process

Life Cycle Stage	:	Widespread use by professional workers	
Product category	:	**PC35**	Washing and cleaning products (including solvent based products)

Contributing scenario controlling environmental exposure for:

Environmental release	:	**ERC8a**	Wide dispersive indoor use of processing aids in open

category		systems
Daily amount per site	:	7.5 kg
Type of Sewage Treatment Plant	:	Municipal sewage treatment plant

Contributing scenario controlling worker exposure for:

Process category	:	**PROC10**	Roller application or brushing
Exposure duration	:	480 min	
Operational conditions and risk management measures	:	Indoor	
		Local Exhaust Ventilation is not required	
General ventilation		Ventilation rate per hour	1
Skin Protection	:	see section 8	
Respiratory Protection	:	see section 8	

Contributing scenario controlling worker exposure for:

Process category	:	**PROC8a**	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities
Exposure duration	:	60 min	
Operational conditions and risk management measures	:	Indoor	
		Local Exhaust Ventilation is not required	
General ventilation		Ventilation rate per hour	1
Skin Protection	:	see section 8	
Respiratory Protection	:	see section 8	

Exposure Scenario: Kitchen cleaner. Manual process

Life Cycle Stage	:	Widespread use by professional workers	
Product category	:	**PC35**	Washing and cleaning products (including solvent based products)

Contributing scenario controlling environmental exposure for:

Environmental release category	:	**ERC8a**	Wide dispersive indoor use of processing aids in open systems
Daily amount per site	:	7.5 kg	
Type of Sewage Treatment Plant	:	Municipal sewage treatment plant	

Contributing scenario controlling worker exposure for:

Process category	:	**PROC10**	Roller application or brushing
Exposure duration	:	480 min	
Operational conditions and risk management measures	:	Indoor	
		Local Exhaust Ventilation is not required	
General ventilation		Ventilation rate per hour	1
Skin Protection	:	see section 8	
Respiratory Protection	:	see section 8	

Contributing scenario controlling worker exposure for:

Process category	:	**PROC8a**	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities
Exposure duration	:	60 min	
Operational conditions and risk management measures	:	Indoor	
		Local Exhaust Ventilation is not required	
General ventilation		Ventilation rate per hour	1
Skin Protection	:	see section 8	
Respiratory Protection	:	see section 8	