

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

Product identifier

artic 1003

Art.-No.:

711-1003

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

Use of the substance/mixture

Cleaning agent

Details of the supplier of the safety data sheet

Rozone Limited

Queen Street, Darlaston Wednesbury

West Midlands, WS10 8JB

www.rozone.co.uk

SECTION 2: Hazards identification

Classification of the substance or mixture

Indications of danger : Irritant, Dangerous for the environment

R-phrases:

Irritating to eyes and skin.

May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Danger symbols:

Xi - Irritant; N - Dangerous for the environment



Xi - Irritant



N - Dangerous for the environment

R phrases

36/38 Irritating to eyes and skin.

43 May cause sensitization by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

24 Avoid contact with skin.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with plenty of water.

37 Wear suitable gloves.

Hazardous components which must be listed on the label

d-Limonene

Other hazards

High risk of slipping due to leakage/spillage of product.

SECTION 3: Composition/information on ingredients

Mixtures

Chemical characterization

Aqueous solution

Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
REACH No.		
232-433-8	d-Limonene	10 - 30 %
68647-72-3	Xi, N R10-38-43-50-53	
247-556-2	isopropylamine dodecylbenzenesulphonic acid	5 - 10 %
26264-05-1	Xi R38-41	
252-104-2	(2-methoxymethylethoxy)propanol	0 - 5 %
34590-94-8		
*	Alcohol ethoxylate	0 - 5 %
	Xn, Xi R22-41	

Full text of each relevant R phrase can be found in heading 16.

Further Information

*) Polymer

SECTION 4: First aid measures

Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

If you feel unwell, seek medical advice.

After inhalation

After inhalation of combustion gases or decomposition products in case of fire, move victim into fresh air.

In the event of symptoms refer for medical treatment.

After contact with skin

Wash off thoroughly with water.

Consult a doctor if skin irritation persists.

After contact with eyes

Remove contact lens.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Never give anything by mouth to an unconscious person.

Seek medical treatment immediately.

Most important symptoms and effects, both acute and delayed

Watch out. Beware, hazard of foam aspiration.

Irritating to eyes and skin.

May cause sensitization by skin contact.

Indication of any immediate medical attention and special treatment needed

Treat symptoms.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Product does not burn, fire-extinguishing activities according to surrounding.

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.

Extinguishing media which must not be used for safety reasons

Full water jet.

Special hazards arising from the substance or mixture

Fire may produce:

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

Advice for firefighters

Use breathing apparatus with independent air supply.

Protective suit.

Additional information

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Attention. Hazard of skidding.

Avoid contact with skin, eyes and clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal look up chapter 13.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid contact with the skin and the eyes.

Keep tightly closed.

Advice on protection against fire and explosion

No special protective measures against fire required.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep containers tightly closed in a cool, well-ventilated place.

Keep at temperatures between - 5°C and 50°C.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Specific end use(s)

Cleaning agent

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits (EH40)

CAS No.	Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
34590-94-8	(2-methoxymethylethoxy) propanol	50	308		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

Exposure controls

Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Avoid contact with eyes and skin.

Wash hands before breaks and at the end of workday.

When using, do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Respiratory protection

No personal respiratory protective equipment normally required.

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Hand protection

Protective gloves resistant to chemicals made off nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril 735> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection

Safety goggles with side protection.

Eye wash bottle with pure water.

Skin protection

Long sleeved clothing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Emulsion in water

Colour: Whitish

Odour: Characteristic

	Test method
pH-Value:	7,0 - 7,5

Changes in the physical state

Boiling point: approx. 100 °C

Flash point: n.a.

Lower explosion limits: n.d.

Upper explosion limits: n.d.

Ignition temperature: n.d.

Density (at 20 °C): 0,93 - 0,97 g/cm³

Water solubility:
(at 20 °C) Dispersible

Viscosity / dynamic: < 60 mPa·s

SECTION 10: Stability and reactivity

Reactivity

No decomposition if stored and applied as directed.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Not known

Conditions to avoid

Avoid temperatures above 50°C.

Avoid temperatures below 5°C.

Incompatible materials

No materials to be especially mentioned.

Hazardous decomposition products

Not known

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

(2-methoxymethylethoxy)propanol

LD50/oral/rat: 5130 mg/kg

isopropylamine dodecylbenzenesulphonic acid

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LD50/oral/rat: > 2000 mg/kg

Alcohol ethoxylate

LD50/oral/rat: 200 - 2000 mg/kg

Irritation and corrosivity

Irritating to eyes and skin.

Sensitizing effects

May cause sensitization by skin contact.

Severe effects after repeated or prolonged exposure

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

Carcinogenic/mutagenic/toxic effects for reproduction

Carcinogenicity: Not classified.

Mutagenicity: Not classified.

Teratogenicity Not classified.

Empirical data on effects on humans

Watch out. Beware, hazard of foam aspiration.

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

SECTION 12: Ecological information

Toxicity

Alcohol ethoxylate

LC50/Fish: 1 - 10 mg/l

EC50/Daphnia: 1 - 10 mg/l

EC50/Algae: 1 - 10 mg/l

(2-methoxymethylethoxy)propanol

LC50/Fish/96 h: > 10000 mg/l

EC50/Daphnia magna/48 h: > 1900 mg/l

isopropylamine dodecylbenzenesulphonic acid

LC50/Fish: 1 - 10 mg/l

EC50/Daphnia/48 h: 15 mg/l

Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Bioaccumulative potential

There is no indication of bioaccumulation potential.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

Ecological injuries are not known or expected under normal use.

Further information

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

Waste treatment methods

Advice on disposal

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

Waste disposal number of waste from residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

SECTION 14: Transport information

Land transport (ADR/RID)

UN number:

3082

UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(d-Limonene)

Transport hazard class(es):

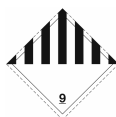
9

Packing group:

III

Hazard label:

9



Classification code:

M6

Limited quantity:

5 l

Transport category:

3

Hazard-no.:

90

Tunnel restriction code:

E

Inland waterways transport

UN number:

3082

UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(d-Limonene)

Transport hazard class(es):

9

Packing group:

III

Hazard label:

9



Classification code:

M6

Limited quantity:

5 L / 30 kg

Marine transport

UN number:

3082

UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-limonene)

Transport hazard class(es):

9

Packing group:

III

Hazard label:

9



Limited quantity:

5 L / 30 kg

EmS:

F-A, S-F

Air transport

UN/ID number:

3082

UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-limonene)

Transport hazard class(es):

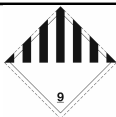
9

Packing group:

III

Hazard label:

9



Limited quantity Passenger:	Y964 / 30 kg G
IATA-packing instructions - Passenger:	964
IATA-max. quantity - Passenger:	450 L
IATA-packing instructions - Cargo:	964
IATA-max. quantity - Cargo:	450 L

Environmental hazards

Dangerous for the environment: yes



Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

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

EU regulatory information

1999/13/EC (VOC): 0 %

Additional information

This product complies with the criteria developed in the Regulation (EC) No. 648/2004 on detergents.

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

- | | |
|-------|---|
| 10 | Flammable. |
| 22 | Harmful if swallowed. |
| 36/38 | Irritating to eyes and skin. |
| 38 | Irritating to skin. |
| 41 | Risk of serious damage to eyes. |
| 43 | May cause sensitization by skin contact. |
| 50 | Very toxic to aquatic organisms. |
| 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 53 | May cause long-term adverse effects in the aquatic environment. |

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)