Code: 0030208 Product name. SHOWER BRILL 1.2. Relevant identified uses of the substance or mixture and uses advised against. Sector of use Sector of use SU3 - Industrial uses SU22 - Professional uses SU21 - Consumer uses Stategory of products PC35- Washing and Cleaning Products (including solvent based products) Intended use Protective descaling acid detergent 1.3. Details of the supplier of the safety data sheet. MARBEC S.R.L. Name. VIA CROCE ROSSA 5/i Full address. VIA CROCE ROSSA 5/i District and Country. ITALY tel. + 390573/959848 fax. + 300573/959385 a-mail address of the competent person. info@marbec.it A. Emergency telephone number. MARBEC srl + 390573/959848 h8.30-13 h14-18 or + 393348578502 Telephone number of Poison Centers active 24/24 hours		MAR	BEC S.R.L.	Revision nr. 6 Dated 09/03/2022
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SECTION 2. Hazards identification.	SECTION 2 Honord	e identifiection		

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

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lazard classification ar Eye irritation, categor		H319	Causes serious eye irritation.
Lyo milaton, oatogoi	<i>,</i> _	1010	
2.2. Label elements.			
azard labelling pursua	ant to EC Regulation 1272/2	008 (CLP) and subsequent a	mendments and supplements.
Hazard pictograms:			
Signal words:	Warning		
azard statements:			
H319	Causes serious eye ir	ritation.	
recautionary statemer	nts:		
P280 P337+P313 P264 P305+P351+P338	Wash thoroughly a	s: Get medical advice / attenti after handling.	on. minutes. Remove contact lenses, if present and easy to do. Continue
2.3. Other hazards.			
n the basis of availab	le data, the product does no	ot contain any PBT or vPvB in	percentage greater than 0,1%.
he product does not c	ontain substances with end	ocrine disrupting properties in	concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

The full wording of hazard (H) phrases is given in section 16 of the shee	
Identification.	Classification 1272/2008 (CLP).
Citric Acid Monohydrate	、 ,
CAS. 5949-29-1 1 ≤ x < 3	Eye Irrit. 2 H319
EC. 201-069-1	
INDEX	

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Reg. no. 01-2119457026-42-****

Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether CAS. 166736-08-9

1≤x< 3

Acute Tox. 4 H302, Eye Dam. 1 H318

LD50 Orale: >300 mg/kg

EC. -INDEX. –

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT Choose the most appropriate extinguishing equipment for the specific case.

UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE The product is neither flammable nor combustible.

5.3. Advice for firefighters.

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GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and boots for the Fire Brigade (HO A29 or A30).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 10

7.3. Specific end use(s).

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Information not available.

SECTION 8. Exposure controls/personal protection. 8.1. Control parameters. Regulatory References: FRA JORF n°0109 du 10 mai 2012 page 8773 texte n° 102 France GBR United Kingdom EH40/2005 Workplace exposure limits ITA Italia Decreto Legislativo 9 Aprile 2008, n.81 PRT Portugal Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diaro da Republica I 26; 2012-02-06 ΕU OEL EU Direttiva (UE) 2017/164; Direttiva 2009/161/UE; Direttiva 2006/15/CE; Direttiva 2004/37/CE; Direttiva 2000/39/CE; Direttiva 91/322/CEE. TLV-ACGIH ACGIH 2017 **Citric Acid Monohydrate** Predicted no-effect concentration - PNEC. Normal value in fresh water 0,4 ma/l 0 44 Normal value in marine water

	0,44	nig/i
Normal value for fresh water sediment	3,46	mg/kg/d
Normal value for marine water sediment	34,6	mg/kg/d
Normal value of STP microorganisms	1000	mg/l
Normal value for the terrestrial compartment	33,1	mg/kg/d
Normal value for the atmosphere	VND	

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. For the selection of personal protective equipment, if necessary ask your chemical suppliers for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Use chemical resistant gloves classified according to EN 374: gloves for protection against chemicals and micro-organisms.

Suitable material: NBR (nitrile-butadiene rubber) - Butyl rubber (butyl rubber) 0.5 mm, >8h.

Compatibility, degradation, breaking time and permeation must be considered when choosing the material of work gloves.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use because it is not foreseeable. Gloves have a wear time which depends on the duration and mode of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

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EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

Not necessary for normal use.

If the threshold value (eg TLV-TWA) of the substance or one or more of the substances present in the product is exceeded (eg in unventilated environments, dust or aerosols) use respiratory protection equipped with an anti- acird vapor filter (B-type) or air visor in case of insufficient ventilation (see standard EN 14387).

If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.) it is necessary to provide combined filters

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	colourless	
Odour	characteristic	
Melting point / freezing point	Not applicable	
Initial boiling point	Not available	
Flammability	not flammable	
Lower explosive limit	Not applicable	
Upper explosive limit	Not applicable	
Flash point	> 90 °C	
Auto-ignition temperature	Not applicable	
рН	3	
Kinematic viscosity	Not available	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	1,03 kg/l	
Relative vapour density	Not available	
Particle characteristics	Not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

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9.2.2. Other safety characterist	ice	
Explosive properties	non-explosive	
Oxidising properties	non-oxidizing	
SECTION 10. Stability	/ and reactivity.	
10.1. Reactivity.		
here are no particular risks of re	eaction with other substances in normal conditions of use.	
10.2. Chemical stability.		
he product is stable in normal c	onditions of use and storage.	
10.3. Possibility of hazardous	s reactions.	
lo hazardous reactions are fores	seeable in normal conditions of use and storage.	
10.4. Conditions to avoid.		
lone in particular. However the u	usual precautions used for chemical products should be respec	ted.
10.5. Incompatible materials.		
nformation not available.		
10.6. Hazardous decompositi	ion products.	
nformation not available.		
SECTION 11. Toxicol	ogical information.	

11.1. Information on toxicological effects.

Metabolism, kinetics, action mechanism and other information

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Information not available		
Information on likely routes of exposure Information not available		
Immediate, delayed effects and chronic effects from short and lo Information not available	ng term exposures	
Interactive effects Information not available		
ACUTE TOXICITY		
ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	Not classified (no significant component) >2000 mg/kg Not classified (no significant component)	
Oxirane, 2-methyl-, polymer LD50 (Oral):	> 300 mg/kg rat	
Citric Acid Monohydrate LD50 (Dermal): LD50 (Oral):	> 2000 mg/kg > 5400 mg/kg rat	
SKIN CORROSION / IRRITATION		
Does not meet the classification criteria for this hazard class		
SERIOUS EYE DAMAGE / IRRITATION		
Causes serious eye irritation		
RESPIRATORY OR SKIN SENSITISATION		
Does not meet the classification criteria for this hazard class		

Respiratory sensitization

Information not available

Skin sensitization

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Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

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Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information.

12.1. Toxicity.

Oxirane, 2-methyl-, polymer

LC50 – for Fish EC50 – for Crustacea

EC50 – for Algae / Aquatic Plants

- > 10 mg/l/96h Danio rerio
- > 10 mg/l/48h Daphnia magna
- > 10 mg/l/72h Scenedesmus subspicatus

12.2. Persistence and degradability.

Citric Acid Monohydrate

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Rapidly biodegradable.

Oxirane, 2-methyl-, polymer Rapidly degradable

12.3. Bioaccumulative potential.

Information not available

12.4. Mobility in soil.

Information not available

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number.

Not applicable.

14.2. UN proper shipping name.

Not applicable.

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14.3. Transport hazard class(es).

Not applicable.

14.4. Packing group.

Not applicable.

14.5. Environmental hazards.

Not applicable.

14.6. Special precautions for user.

Not applicable.

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

Information not relevant.

SECTION 15. Regulatory information.

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

Seveso Category - Directive 2012/18/EC: none.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product. Point.

3 - 40

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH).

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisarion (Annex XIV REACH).

None.

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Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment.

A chemical safety assessment has been developed for the following substances in the mixture:

Citric acid monohydrate. SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3	Flammable liquid, category 3
Skin Corr. 1A	Skin corrosion, category 1A
Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008

- DNEL: Derived No Effect Level

- EmS: Emergency Schedule

- GHS: Globally Harmonized System of classification and labeling of chemicals

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- IATA DGR: International Air Transport Association Dangerous Goods Regulation
IC50: Immobilization Concentration 50%
IMDG: International Maritime Code for dangerous goods IMO: International Maritime Organization
INDEX NUMBER: Identifier in Annex VI of CLP
LC50: Lethal Concentration 50%
LD50: Lethal dose 50%
OEL: Occupational Exposure Level
PBT: Persistent bioaccumulative and toxic as REACH Regulation PEC: Predicted environmental Concentration
PEL: Predicted exposure level
PNEC: Predicted no effect concentration
REACH: EC Regulation 1907/2006
RID: Regulation concerning the international transport of dangerous goods by train
TLV: Threshold Limit Value
 TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure. TWA STEL: Short-term exposure limit
· TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).
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Changes to previous review:
The following sections were modified:
01 / 02 / 03 / 09 / 11 / 12 / 15 / 16.