SUBJECT	**Safety Data Sheet (SDS)**
SERVICE LOCATION	**TÜV SÜD China** TÜV SÜD Products Testing (Shanghai) Co., Ltd. B-3/4, No.1999 Du Hui Road, Minhang District Shanghai 201108, P.R. China
CLIENT NAME	**Caye Technology Suzhou Co., Ltd.**
CLIENT ADDRESS	Unit 201, Building B4, No. 8 Yanghua Road, Suzhou Industrial Park (SIP), Suzhou, Jiangsu, China

The sample information was submitted and identified on applicant's behalf to be:

SAMPLE NAME	Milk System Cleaning Balls
PREPARED PERIOD	25-Oct-2024~31-Oct-2024
SERVICE REQUESTED	Prepared according to EU regulation No. 2020/878

Prepared By	**Authorized By**
(Fancy Fan) Report Drafter	(Steve Cao) Authorized Signatory

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(3) The test report may not be reproduced either in part or in full.
(4) Disclaimer Measurement Uncertainty:
Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.
Please note, every test method has a measurement uncertain+ty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements.
By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.
(5) The testing report without CMA stamp is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

Safety Data Sheet

Milk System Cleaning Balls MC02

*Prepared according to EU regulation No. 2020/878

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

1.1 Product identifier

Product Name	Milk System Cleaning Balls MC02
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
REACH Registration Number	-
UFI	No information available

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

Relevant identified uses	Coffee machine milk system clean.
Uses advised against	Please consult manufacturer.

1.3 Details of the supplier of the Safety Data Sheet

Applicant Name	Caye Technology Suzhou Co., Ltd.
Applicant Address	Unit 201, Building B4, No. 8 Yanghua Road, Suzhou Industrial Park (SIP), Suzhou, Jiangsu, China
Applicant Post Code	-
Applicant Telephone	13914065691
Applicant Fax	-
Applicant E-mail	Tonyli@caye.com
Supplier Name	Zhejiang LARGE Biotechnology CO., LTD
Supplier Address	No.3 Huagian Avenue, Pinggiao Town,Tiantai Country,Taizhou City, Zhejiang Province, China.
Supplier Post Code	317200
Supplier Telephone	0576-83650058
Supplier Fax	0086-4008266163-13100
Supplier E-mail	sales@ttlarge.com

1.4 Emergency telephone number

Emergency telephone number	13914065691
Opening hours	24h

2 Hazards identification

2.1 CLP classification according to Regulation（EC）No. 1272/2008

Oxidizing Solids	Category 2
Acute Toxicity – Oral	Category 4
Eye Damage/Irritation	Category 1
Specific target organ toxicity, single exposure; Respiratory	Category 3

tract irritation	

2.2 Label elements

Hazard pictograms	
Signal word	**Danger**

Hazard statements

H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H318	Causes serious eye damage
H335	May cause respiratory irritation

Precautionary statements

- Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep away from clothing and other combustible materials.
P261	Avoid breathing dust/fume.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

- Response

P310	Immediately call a POISON CENTER/doctor.
P330	Rinse mouth.
P301+P312	IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P370+P378	Small fire: water; Large fire: flood fire area with water from a distance; Fire involving tanks, rail tank cars or highway tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

- Disposal

P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

2.3 Other hazards

- Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
CITRIC ACID ANHYDROUS	Not PBT/vPvB
SODIUM BICARBONATE	Not PBT/vPvB
SODIUM PERCARBONATE	Not PBT/vPvB
SODIUM LAURYL GLUTAMATE	Not PBT/vPvB
PROTEASE	No information available
SODIUM CARBOXYMETHYL CELLULOSE	No information available
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT	Not PBT/vPvB
PEG6000	Not PBT/vPvB
SODIUM BENZOATE	Not PBT/vPvB

◆ Results of endocrine disrupting properties assessment

Component	Results of endocrine disrupting properties assessment [according to (EU) No 2017/2100 or (EU) No 2018/605]
CITRIC ACID ANHYDROUS	No information available
SODIUM BICARBONATE	No information available
SODIUM PERCARBONATE	No information available
SODIUM LAURYL GLUTAMATE	No information available
PROTEASE	No information available
SODIUM CARBOXYMETHYL CELLULOSE	No information available
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT	No information available
PEG6000	No information available
SODIUM BENZOATE	No information available

◆ Other

	Not applicable.

3 Composition/information on ingredients

3.1 Substance/mixture

	Mixture

Component	Weight % content (or range)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific Conc. Limits, M-factors

CITRIC ACID ANHYDROUS CAS：77-92-9 EC：201-069-1 Index No.：607-750-00-3	30-45	Eye Damage/Irritation，Category 2，H319；Specific target organ toxicity, single exposure; Respiratory tract irritation，Category 3，H335	-
SODIUM BICARBONATE CAS：144-55-8 EC：205-633-8 Index No.：-	30-40	Not Classified	-
SODIUM PERCARBONATE CAS：15630-89-4 EC：239-707-6 Index No.：-	15-30	Oxidizing Solids，Category 2，H272；Eye Damage/Irritation，Category 1，H318；Acute Toxicity – Oral，Category 4，H302	H318:C>25%|H319:7.5%≤C<25%
SODIUM LAURYL GLUTAMATE CAS：29923-31-7 EC：249-958-3 Index No.：-	10-25	Eye Damage/Irritation，Category 2，H319	-
PROTEASE CAS：9014/1/1 EC：- Index No.：-	1-5	No information available	-
SODIUM CARBOXYMETHYL CELLULOSE CAS：9004-32-4 EC：618-378-6 Index No.：-	1-5	Not Classified	-
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT CAS：139-33-3 EC：205-358-3 Index No.：-	1-5	Acute Toxicity – Inhalation，Category 4，H332；Specific Target Organ Toxicity (Repeated Exposure)，Category 2，H373	-
PEG6000 CAS：25322-68-3 EC：500-038-2 Index No.：-	1-5	Not Classified	-
SODIUM BENZOATE CAS：532-32-1 EC：208-534-8 Index No.：-	1-5	Eye Damage/Irritation，Category 2，H319	-

4 First-aid measures

4.1 Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

4.2 Most important symptoms/effects, acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

4.3 Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Small fire: water; Large fire: flood fire area with water from a distance; Fire involving tanks, rail tank cars or highway tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out.
Unsuitable extinguishing media	Small fire: do not use dry chemicals or foams. CO2 or Halon?may provide limited control.

5.2 Specific hazards arising from the substance or mixture

1	Will not burn but increases intensity of fire.
2	Contact with combustibles such as wood, paper, oil or finely divided metal may produce spontaneous combustion or violent decomposition.
3	Has a fire-promoting effect due to release of oxygen.
4	The material may provide sufficient oxygen to make the fire fierce and self sustaining.
5	Smothering action may not be effective for established fire.
6	Development of hazardous combustion gases or vapor possible in the event of fire.
7	May expansion or decompose explosively when heated or involved in fire.

5.3 Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

1	Keep combustibles (wood, paper, oil, etc.) away from spilled material.
2	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
3	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
4	Use personal protective equipment,do not breathe dust/fume.

6.2 Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

1	It is recommended that emergency personnel wear dust masks and wear anti-static clothing.
2	Small spills: Collect spillage with a clean shovel and place in a clean, dry, loosely closed container to remove the container from the leak.
3	A large number of leaks: wetting with water and building a dike.
4	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
5	Prevent spills from entering water bodies, sewers, basements, or confined spaces.
6	Do not touch broken containers and spills before putting on appropriate protective clothing.
7	Use clean, non-sparking tools to collect absorbed material.
8	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
9	Cut off the source of the leak as much as possible.
10	Keep leaks in a ventilated place.
11	Isolation of contaminated areas and restrictions on access.
12	It is recommended that emergency personnel wear dust masks.
13	Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak.
14	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections

1	Personal Protective Equipment advice is contained in Section 8 of the SDS.
2	Disposal considerations advice is contained in Section 13 of the SDS.

7 Handling and storage

7.1 Precautions for safe handling

◆ Protective measures

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.

◆ Measures to prevent fire

1	Keep away from heat/sparks/open flames/ hot surfaces.

◆ Measures to prevent aerosol and dust generation

1	Avoid formation of dust and aerosols.
2	Provide appropriate exhaust ventilation at places where dust is formed.

◆ Advice on general occupational hygiene

1	Wash hands and face after using of the substances.
2	Replace the contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

7.3 Specific end use(s)

1	In addition to use mentioned in the Section 1.2, unforeseen other specific end uses.

8 Exposure controls/personal protection

8.1 Control parameters

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
CITRIC ACID ANHYDROUS	Germany (AGS)	-	2	-	4
	Germany (DFG)	-	2	-	4
	Switzerland	-	2	-	4
PEG6000	Denmark	-	1000	-	2000
	Germany (AGS)	-	200	-	400
	Germany (DFG)	-	250	-	500
	Switzerland	-	500	-	-
	Austria	-	1000(inhalable aerosol)	-	4000(inhalable aerosol)
SODIUM BENZOATE	Germany (AGS)	-	10	-	20

◆ Biological limit values

Biological limit values	No relevant regulations

◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300 series standard Determination of toxic substances in workplace air.

◆ Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
CITRIC ACID ANHYDROUS	Inhalation	No information available	No information available	No information available	No information available
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
SODIUM BICARBONATE	Inhalation	No information available	No information available	No information available	No information available
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
SODIUM PERCARBONATE	Inhalation	No information available	No information available	5 mg/m3	No information available
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
SODIUM LAURYL GLUTAMATE	Inhalation	No information available	No information available	No information available	No information available

	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
PROTEASE	Inhalation	No information available	No information available	No information available	No information available
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
SODIUM CARBOXYMETHYL CELLULOSE	Inhalation	No information available	No information available	No information available	No information available
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT	Inhalation	No information available	No information available	1.5 mg/m3	1.5 mg/m3
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
PEG6000	Inhalation	No information available	No information available	No information available	40.2 mg/m3
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available
SODIUM BENZOATE	Inhalation	No information available	No information available	0.1 mg/m3	3 mg/m3
	Oral	No information available	No information available	No information available	No information available
	Dermal	No information available	No information available	No information available	No information available

◆ Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)	No information available

8.2 Exposure controls

8.2.1 Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

8.2.2 Personal protection equipment

General requirement	
Eye protection	Must wear appropriate anti-corrosion goggles.
Hand protection	Must wear acid and alkali resistant chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear acid and alkali resistant chemical protective clothing.

8.2.3 Environmental exposure controls

Environmental exposure controls	No information available

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Solid (spherical)
Colour	No information available
Odor	Weak odor
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	No information available
Flash point(Closed cup,°C)	Not applicable
Evaporation rate	Not applicable
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit：No information available；Lower limit：No information available
Vapor pressure	Not applicable
Vapor density(Air = 1)	Not applicable
Relative density(Water=1)	No information available
Solubility	No information available
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity(mm²/s)	Not applicable
Explosive properties	No information available
Oxidizing properties	No information available
Particle characteristics	No information available

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Information with regard to physical hazard classes	No information available

9.2.2 Other safety characteristics

Other safety characteristics	No information available

10 Stability and reactivity

Stability and reactivity

10.1 Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
10.2 Chemical stability	Stable under proper operation and storage conditions.
10.3 Possibility of hazardous	No information available.

reactions	
10.4 Conditions to avoid	Incompatible materials, heat, flame and spark.
10.5 Incompatible materials	Metal alkoxides, furfuryl alcohol, acetaldehyde, nitric acid, nitrate, nitrite, oxyacid salt halogen and inorganic peroxide.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

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

Milk System Cleaning Balls MC02	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Causes serious eye damage(Category 1)
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	May cause respiratory irritation(Category 3)
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met

Acute toxicity

Component	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation,4h)
SODIUM BICARBONATE	4220mg/kg(Rat)	No information available	No information available
PEG6000	600mg/kg(Rat)	> 20000mg/kg(Rabbit)	No information available
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT	2000mg/kg(Rat)	No information available	No information available
SODIUM PERCARBONATE	2400mg/kg(Rat)	No information available	No information available
SODIUM BENZOATE	4070mg/kg(Rat)	No information available	No information available
SODIUM LAURYL GLUTAMATE	5500mg/kg(Mouse)	No information available	No information available
SODIUM CARBOXYMETHYL CELLULOSE	27000mg/kg(Rat)	> 2000mg/kg(Rabbit)	> 5.8mg/L(Rat)
CITRIC ACID ANHYDROUS	3000mg/kg(Rat)	No information available	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
CITRIC ACID ANHYDROUS	Not Listed	Not Listed
SODIUM BICARBONATE	Not Listed	Not Listed
SODIUM PERCARBONATE	Not Listed	Not Listed
SODIUM LAURYL GLUTAMATE	Not Listed	Not Listed

PROTEASE	Not Listed	Not Listed
SODIUM CARBOXYMETHYL CELLULOSE	Not Listed	Not Listed
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT	Not Listed	Not Listed
PEG6000	Not Listed	Not Listed
SODIUM BENZOATE	Not Listed	Not Listed

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Component	Endocrine disrupting properties
CITRIC ACID ANHYDROUS	No information available
SODIUM BICARBONATE	No information available
SODIUM PERCARBONATE	No information available
SODIUM LAURYL GLUTAMATE	No information available
PROTEASE	No information available
SODIUM CARBOXYMETHYL CELLULOSE	No information available
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT	No information available
PEG6000	No information available
SODIUM BENZOATE	No information available

11.2.2 Other Information

Other Information	See Section 11.1

12 Ecological information

12.1 Toxicity

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
SODIUM BICARBONATE	LC_{50}: 8600mg/L (96h)(Fish)	EC_{50}: 4100mg/L (48h)(Daphnia magna)	No information available
PEG6000	LC_{50}: > 100mg/L (96h)(Fresh water fish)	EC_{50}: > 100mg/L (48h)(Daphnia magna)	ErC_{50}: > 100mg/L (96h)(Freshwater algae)
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT	LC_{50}: > 100mg/L (96h)(Fish)	EC_{50}: > 100mg/L (48h)(Daphnia magna)	ErC_{50}: > 100mg/L (72h)(Raphidocelis subcapitata)
SODIUM BENZOATE	LC_{50}: 484mg/L (96h)(Fresh water fish)	No information available	No information available

SODIUM LAURYL GLUTAMATE	LC_{50}：62.4mg/L (96h)(Fresh water fish)	No information available	No information available
SODIUM CARBOXYMETHYL CELLULOSE	No information available	EC_{50}：87.3mg/L (48h)(Daphnia magna)	No information available
CITRIC ACID ANHYDROUS	LC_{50}：440mg/L (96h)(Fresh water fish)	No information available	No information available

Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae
SODIUM BICARBONATE	NOEC：400mg/L(Fish)	No information available	No information available
PEG6000	NOEC：13671.586mg/L(Fish)	No information available	No information available
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT	NOEC：≥35.1mg/L(Brachydanio rerio)	No information available	No information available

12.2 Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
CITRIC ACID ANHYDROUS	Low	Low
SODIUM BICARBONATE	Low	Low
SODIUM PERCARBONATE	Low	Low
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT	Low	Low
PEG6000	Low	Low

12.3 Bioaccumulative potential

Component	Bioaccumulative potential	Comments
CITRIC ACID ANHYDROUS	Low	Log Kow=-1.7
SODIUM BICARBONATE	Low	Log Kow=-0.4605
SODIUM PERCARBONATE	Low	Log Kow=-1.571
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT	Low	Log Kow=-3.8573
PEG6000	Low	Log Kow=-1.1996

12.4 Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
CITRIC ACID ANHYDROUS	Low	10
SODIUM BICARBONATE	High	1

SODIUM PERCARBONATE	Low	14.3
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT	Low	1046
PEG6000	High	1

12.5 Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
CITRIC ACID ANHYDROUS	Not PBT/vPvB
SODIUM BICARBONATE	Not PBT/vPvB
SODIUM PERCARBONATE	Not PBT/vPvB
SODIUM LAURYL GLUTAMATE	Not PBT/vPvB
PROTEASE	No information available
SODIUM CARBOXYMETHYL CELLULOSE	No information available
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT	Not PBT/vPvB
PEG6000	Not PBT/vPvB
SODIUM BENZOATE	Not PBT/vPvB

12.6 Endocrine disrupting properties

Component	Endocrine disrupting properties
CITRIC ACID ANHYDROUS	No information available
SODIUM BICARBONATE	No information available
SODIUM PERCARBONATE	No information available
SODIUM LAURYL GLUTAMATE	No information available
PROTEASE	No information available
SODIUM CARBOXYMETHYL CELLULOSE	No information available
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT	No information available
PEG6000	No information available
SODIUM BENZOATE	No information available

12.7 Other adverse effects

	No information available

13 Disposal considerations

13.1 Waste treatment methods

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

Label

Transporting Label	

IMDG-CODE

UN number	3378
UN proper shipping name	SODIUM CARBONATE PEROXYHYDRATE
Transport hazard class	5.1
Transport subsidiary hazard class	None
Packing group	Ⅱ
Marine pollutant（Yes or no）	No

ICAO/IATA-DGR

UN number	3378
UN proper shipping name	SODIUM CARBONATE PEROXYHYDRATE
Transport hazard class	5.1
Transport subsidiary hazard class	None
Packing group	Ⅱ

UN-ADR

UN number	3378
UN proper shipping name	SODIUM CARBONATE PEROXYHYDRATE
Transport hazard class	5.1
Transport subsidiary hazard class	None
Packing group	Ⅱ

Maritime transport in bulk according to IMO instruments

◆Transport in bulk according to Annex II of MARPOL and the IBC code	
	No information available
◆Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code	
	No information available

◆Transport in bulk in accordance with the IGC Code

	No information available

15 Regulatory information

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

International chemical inventory

Component	EC inventory	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIICS	ENCS
CITRIC ACID ANHYDROUS	√	√	√	√	√	√	√	√	√
SODIUM BICARBONATE	√	√	√	√	√	√	√	√	√
SODIUM PERCARBONATE	×	√	√	√	√	√	√	√	√
SODIUM LAURYL GLUTAMATE	√	√	×	√	√	√	√	√	√
PROTEASE	×	×	×	×	×	×	×	×	×
SODIUM CARBOXYMETHYL CELLULOSE	×	√	√	√	√	√	√	√	√
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT	√	√	√	√	√	√	√	√	√
PEG6000	√	√	√	√	√	√	√	√	√
SODIUM BENZOATE	√	√	√	√	√	√	√	√	√

[EC inventory] European Inventory of Existing Commercial Chemical Substances
[TSCA] United States Toxic Substances Control Act Inventory
[DSL] Canadian Domestic Substances List
[IECSC] China Inventory of Existing Chemical Substances
[NZIoC] New Zealand Inventory of Chemicals
[PICCS] Philippines Inventory of Chemicals and Chemical Substances
[KECI] Korea Existing Chemicals Inventory
[AIICS] Australian. Inventory of Industrial Chemical (AIICS)
[ENCS] Japan Inventory of Existing & New Chemical Substances

European chemical inventory

Component	A	B	C	D	E	F	G	H	I
CITRIC ACID ANHYDROUS	×	×	×	√	√	×	×	×	×
SODIUM BICARBONATE	×	×	×	√	√	×	×	×	×
SODIUM PERCARBONATE	×	×	×	√	√	×	×	×	×
SODIUM LAURYL GLUTAMATE	×	×	×	√	√	×	×	×	×
PROTEASE	×	×	×	×	×	×	×	×	×
SODIUM CARBOXYMETHYL CELLULOSE	×	×	×	√	×	×	×	×	×
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM	×	×	×	√	√	×	×	×	×

SALT									
PEG6000	×	×	×	√	√	×	×	×	×
SODIUM BENZOATE	×	×	×	√	√	×	×	×	×

[A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
[B] Substances requiring authorisation under EU REACH regulation
[C] Substances restricted under EU REACH
[D] Pre-registered substances under EU REACH
[E] Registered substances under EU REACH
[F] Substance Evaluation – CoRAP under EU REACH
[G] List of priority substances under EU water policy （Directive 2455/2001/EC）
[H] Substances subject to POPs Regulation
[I] Substances proposed as POPs

Note:
"√" Indicates that the substance included in the regulations.
"×" No data or not included in the regulations.

15.2 Chemical safety assessment

	No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16 Other information

Information on revision

Creation Date	2024/10/29
Revision Date	-
Reason for revision	-

Reference

[1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home。
[2] IARC, website: http://www.iarc.fr/。
[3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/。
[4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple。
[5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp。
[6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/。
[7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg。
[8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/。

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG-CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC_{50}	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD_{50}	Lethal Dose 50%	NTP	National Toxicology Program
EC_{50}	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P_{OW}	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACh Regulation The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Note: This test was carried out by external laboratory assessed as competent.