Safety Data Sheet

According to American OSHA HazCom Standard (2012)

Version 1.0
Issue date: 08-06-2024
Revision date: 08-06-2024 **SDS Record Number: A2240455538101006**

1 Identification

Product identifier

Product Name	Toothpaste
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

Recommended use of the product and restrictions on use

Relevant identified uses	Clean teeth and inhibit bacteria.
Uses advised against	No special restrictions.

Details of the supplier of the Safety Data Sheet

Name of the company	Yangzhou Ecoway Hotel Supply Co.,Ltd
Address of the company	Industrial Park #2-5, Tongzhou Road, Hangji, Yangzhou, Jiangsu, China
Post code	/
Telephone number	13773501495
Fax number	0514-89781991
E-mail address	jack@ecoway.cn

Emergency phone number

Emergency phone number	136 6528 5718

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Eye Damage/Irritation	Category 2A

Label elements

Hazard pictograms	
Signal word	**Warning**

Hazard statements

H319	Causes serious eye irritation

Precautionary statements

- Prevention

P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

- Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- Storage

Storage	Not applicable

- Disposal

Disposal	Not applicable

Other hazards

	Not applicable.

Hazard description

- Physical and chemical hazards

	Cream, soluble in water, no harm under normal conditions.

- Health hazards

Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
Skin Contact	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
Eye	This product may cause serious eye irritation. Severe inflammation may be expected with pain following direct contact with the eye.

- Environmental hazards

	Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

Substance/mixture

	Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Sorbitol	50-70-4	200-061-5	25
Glycerin	56-81-5	200-289-5	10
Cellulose Gum	9004-32-4	618-378-6	1.1

Hydroxyethyl Cellulose	9004-62-0	618-387-5	0.3
Calcium Carbonate	471-34-1	207-439-9	45
Hydrated Silica	10279-57-9	600-358-3	7
Sodium Lauryl Sulfate	151-21-3	205-788-1	1.9
Sodium Saccharin	6155-57-3	612-173-5	0.1
Tetrasodium Pyrophosphate	7722-88-5	231-767-1	0.3
Silica	1344-09-8	215-687-4	0.9
Sodium Phytate	14306-25-3	238-242-6	0.5
Sodium Benzoate	532-32-1	208-534-8	0.08
Aqua	7732-18-5	231-791-2	6.32
Parfum	-	-	1
Menthol	89-78-1	201-939-0	0.5

4 First-aid measures

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.
Skin contact	No harm in general situation. First aid is not needed.
Ingestion	Rinse the mouth.
Inhalation	According to the state of matter, not applicable.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

1	Please see section 11.

Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

Specific hazards arising from the substance or mixture

1	Development of hazardous combustion gases or vapor possible in the event of fire.

2	May expansion or decompose explosively when heated or involved in fire.

Special protective equipment and precautions for fire-fighters

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

Personal precautions, protective equipment and emergency procedures

1	Use personal protective equipment,do not breathe gas/mist/vapour/spray.
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.

Environmental precautions

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

Methods and materials for containment and cleaning up

1	Cut off the source of the leak as much as possible.
2	Keep leaks in a ventilated place.
3	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
4	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
5	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

7 Handling and storage

Precautions for safe handling

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.
4	Keep away from heat/sparks/open flames/ hot surfaces.

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.

8 Exposure controls/personal protection

Control parameters

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Glycerin	Australia	-	10	-	-
	Canada - Ontario	-	10	-	-
	Canada - Québec	-	10	-	-
	France	-	10	-	-
	Germany (AGS)	-	200	-	400
	New Zealand	-	10	-	-
Calcium Carbonate	Australia	-	10	-	-
	Canada - Québec	-	10	-	-
	France	-	10(inhalable aerosol)	-	-
	New Zealand	-	10	-	-
	South Korea	-	10	-	-
	United Kingdom	-	10(Inhalable fraction);4(Respirable fraction)	-	-
Tetrasodium Pyrophosphate	Australia	-	5	-	-
	Canada - Ontario	-	5	-	-
	Canada - Québec	-	5	-	-
	France	-	5	-	-
	New Zealand	-	5	-	-
	South Korea	-	5	-	-
Sodium Benzoate	Germany (AGS)	-	10	-	20

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.

Personal protection equipment

General requirement	No special requirements, please see the description below.
Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapour or dust, tightly fitting safety goggles.
Hand protection	In general situation, hand protection is not needed.

Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof mask or gas defence mask.
Skin and body protection	In general situation, skin and body protection are not needed.

9 Physical and chemical properties and safety characteristics

Physical and chemical properties

Appearance (physical state, color, etc.)	White cream
Odor	mint
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	110~112（Sorbitol）
Initial boiling point and boiling range(°C)	>35
Flash point(Closed cup,°C)	＞100（Sorbitol）
Evaporation rate	No information available
Flammability	Not combustible
Upper/lower explosive limits[%(v/v)]	Upper limit：11.3（Glycerin）；Lower limit：2.6（Glycerin）
Vapor pressure	0.01Pa（25°C,Glycerin）
Vapor density(Air＝1)	3.2（Glycerin）
Relative density(Water=1)	1.5（Sorbitol）
Solubility	2200 g/L（20°C,Sorbitol）
n-octanol/water partition coefficient	-2.2（Sorbitol）
Auto-ignition temperature(°C)	＞649（Sorbitol）
Decomposition temperature(°C)	＞290（Glycerin）
Kinematic viscosity	No information available

10 Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	In contact with oxidants causes severe reactions, and may cause a fire or explosion. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Oxidants, alkali metals, alkaline earth metals and aluminum. Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.

Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity

Component	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation,4h)
Glycerin	12600mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available
Tetrasodium Pyrophosphate	4000mg/kg(Rat)	No information available	No information available
Sorbitol	15900mg/kg(Rat)	No information available	No information available
Sodium Lauryl Sulfate	1288mg/kg(Rat)	600mg/kg(Rabbit)	No information available
Calcium Carbonate	6450mg/kg(Rat)	No information available	No information available
Sodium Benzoate	4070mg/kg(Rat)	No information available	No information available
Menthol	3180mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available
Silica	1960mg/kg(Rat)	> 4640mg/kg(Rabbit)	No information available
Cellulose Gum	27000mg/kg(Rat)	> 2000mg/kg(Rabbit)	> 5.8mg/L(Rat)

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
Sorbitol	Not Listed	Not Listed	Not Listed
Glycerin	Not Listed	Not Listed	Not Listed
Cellulose Gum	Not Listed	Not Listed	Not Listed
Hydroxyethyl Cellulose	Not Listed	Not Listed	Not Listed
Calcium Carbonate	Not Listed	Not Listed	Not Listed
Hydrated Silica	Not Listed	Not Listed	Not Listed
Sodium Lauryl Sulfate	Not Listed	Not Listed	Not Listed
Sodium Saccharin	Category 3(Remark 1)	Not Listed	Not Listed
Tetrasodium Pyrophosphate	Not Listed	Not Listed	Not Listed
Silica	Not Listed	Not Listed	Not Listed
Sodium Phytate	Not Listed	Not Listed	Not Listed
Sodium Benzoate	Not Listed	Not Listed	Not Listed
Aqua	Not Listed	Not Listed	Not Listed
Parfum	Not Listed	Not Listed	Not Listed
Menthol	Not Listed	Not Listed	Not Listed

Remark 1: Overall evaluation downgraded to Group 3 with supporting evidence from other relevant data

Others

	Toothpaste
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Causes serious eye irritation(Category 2A)
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	Based on available data, the classification criteria are not met
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
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met

12 Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
Glycerin	LC_{50}: 885mg/L (96h)(Fish)	No information available	No information available
Tetrasodium Pyrophosphate	LC_{50}: > 100mg/L (96h)(Fish)	EC_{50}: > 100mg/L (48h)(Crustaceans)	No information available
Sodium Lauryl Sulfate	LC_{50}: 29mg/L (96h)(Fish)	EC_{50}: 9.8mg/L (48h)(Crustaceans)	ErC_{50}: 9.46mg/L (96h)(Algae)
Sodium Phytate	No information available	EC_{50}: > 0.2946mg/L (48h)(Crustaceans)	ErC_{50}: 28.13mg/L (72h)(Algae)
Sodium Benzoate	LC_{50}: 484mg/L (96h)(Fish)	No information available	No information available
Menthol	LC_{50}: 22.3mg/L (96h)(Fish)	EC_{50}: 26.6mg/L (48h)(Crustaceans)	ErC_{50}: 16.2mg/L (72h)(Algae)
Silica	LC_{50}: 3185mg/L (96h)(Fish)	EC_{50}: 1700mg/L (48h)(Crustaceans)	ErC_{50}: > 345.4mg/L (72h)(Algae)
Cellulose Gum	No information available	EC_{50}: 87.3mg/L (48h)(Crustaceans)	No information available

Chronic aquatic toxicity

Chronic aquatic toxicity	No information available

Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Sorbitol	Low	Low
Hydroxyethyl Cellulose	Low	Low

Hydrated Silica	Low	Low
Sodium Lauryl Sulfate	High	High
Tetrasodium Pyrophosphate	High	High
Menthol	High	High

Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Sorbitol	Low	Log Kow=-2.2
Hydroxyethyl Cellulose	Low	Log Kow=-8.995
Hydrated Silica	Low	Log Kow=0.5294
Sodium Lauryl Sulfate	Low	BCF=7.15
Tetrasodium Pyrophosphate	Low	Log Kow=-1.7388
Menthol	Low	BCF=15

Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Sorbitol	Low	10
Hydroxyethyl Cellulose	Low	10
Hydrated Silica	Low	23.74
Sodium Lauryl Sulfate	Low	10220
Tetrasodium Pyrophosphate	Low	7.883
Menthol	Low	66.19

Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Sorbitol	Insufficient information, temporarily unable to evaluate
Glycerin	Not PBT/vPvB
Cellulose Gum	Insufficient information, temporarily unable to evaluate
Hydroxyethyl Cellulose	Insufficient information, temporarily unable to evaluate
Calcium Carbonate	Not applicable
Hydrated Silica	Insufficient information, temporarily unable to evaluate
Sodium Lauryl Sulfate	Not PBT/vPvB
Sodium Saccharin	Insufficient information, temporarily unable to evaluate

Tetrasodium Pyrophosphate	Not applicable
Silica	Not applicable
Sodium Phytate	Insufficient information, temporarily unable to evaluate
Sodium Benzoate	Not PBT/vPvB
Aqua	Insufficient information, temporarily unable to evaluate
Menthol	Not PBT/vPvB

13 Disposal considerations

Disposal considerations

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 and Mark

Transporting Label	Not applicable

US DOT (49CFR)

49CFR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

IATA-DGR

IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15 Regulatory information

International chemical inventory

Component	EC inventory	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIIC	ENCS
Sorbitol	√	√	√	√	√	√	√	√	√
Glycerin	√	√	√	√	√	√	√	√	√
Cellulose Gum	×	√	√	√	√	√	√	√	√

Hydroxyethyl Cellulose	×	√	√	√	√	√	√	√	√
Calcium Carbonate	√	√	√	√	√	√	√	√	√
Hydrated Silica	×	×	√	√	√	√	×	×	×
Sodium Lauryl Sulfate	√	√	√	√	√	√	√	√	√
Sodium Saccharin	×	×	×	×	√	√	×	√	×
Tetrasodium Pyrophosphate	√	√	√	√	√	√	√	√	√
Silica	√	√	√	√	√	√	√	√	√
Sodium Phytate	√	×	×	√	√	√	×	√	×
Sodium Benzoate	√	√	√	√	√	√	√	√	√
Aqua	√	√	√	√	√	√	√	√	√
Parfum	×	×	×	×	×	×	×	×	×
Menthol	√	√	√	√	√	√	√	√	√

[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
[AIIC] Australian. Inventory of Industrial Chemical (AIIC)
[ENCS] Japan Inventory of Existing & New Chemical Substances

US chemical inventory

Component	A	B	C	D	E	F	G	H
Sorbitol	×	×	×	×	×	×	×	×
Glycerin	×	×	×	√	√	√	×	×
Cellulose Gum	×	×	×	×	×	×	×	×
Hydroxyethyl Cellulose	×	×	×	×	×	×	×	×
Calcium Carbonate	×	×	×	×	×	×	×	×
Hydrated Silica	×	×	×	×	×	×	×	×
Sodium Lauryl Sulfate	×	×	×	×	×	×	×	×
Sodium Saccharin	×	×	×	×	×	×	×	×
Tetrasodium Pyrophosphate	×	×	×	√	√	√	√	×
Silica	×	×	×	×	×	×	×	×
Sodium Phytate	×	×	×	×	×	×	×	×
Sodium Benzoate	×	×	×	×	×	×	×	×
Aqua	×	×	×	×	×	×	×	×

Parfum	×	×	×	×	×	×	×	×
Menthol	×	×	×	×	×	×	×	×

[A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
[B] US SARA 302- Extremely Hazardous Substance List
[C] US CERCLA- Hazardous Substances List
[D] US Massachusetts Right-to-Know Substance List
[E] US New Jersey Right to Know Hazardous Substance List
[F] US Pennsylvania Right to Know Hazardous Substance List
[G] US New York City Right-to-Know Hazardous Substance List
[H] US California Proposition 65 List

Note:

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

16 Other information

Information on revision

Creation Date	2024/08/06
Revision Date	2024/08/06
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	HCS	Hazard Communication Standard

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2012. 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.