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<b>Product:</b>	Sucralose	<b>Document No:</b>	KH-S (02-02)-C/11
<b>CAS No:</b>	56038-13-2	<b>Product Code:</b>	N/A
<b>Chemical Formula:</b>	C <sub>12</sub> H <sub>19</sub> Cl <sub>3</sub> O <sub>8</sub>	<b>Released By:</b>	Juemin She
<b>Manufacturer:</b>	Techno (Fujian) Food Ingredients Co.,Ltd.	<b>Document Issued Date:</b>	Jan. 08, 2024
		<b>Reviewed Date:</b>	Jan. 08, 2024

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## SAFETY DATA SHEET

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### SECTION 1 – CHEMICAL IDENTIFICATION

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<b>Product Identifier</b>	Sucralose
<b>Recommended Use of the Chemical</b>	Used as food additive
<b>Restriction on Use</b>	None
<b>Supplier</b>	Techno (Fujian) Food Ingredients Co.,Ltd 1399 Nige Industrial Park Yongan, Fujian,366000 China Tel: 86-598-5137005 Fax: 86-598-3666567 Emergency phone no.: 86-598-5137005 Email: Document@techno-fi.com

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### SECTION 2 – HAZARDS IDENTIFICATION

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#### CLASSIFICATION OF THE SUBSTANCE

The product does not need classification according to the version of the Globally Harmonized System of Classification and labelling adopted in the United States and Regulation 1272/2008/EC [CLP]

<b>Signal Word</b>	Non-Regulated Material
<b>Hazard Statement(s)</b>	Non-Regulated Material
<b>Pictogram(s) or Symbol(s)</b>	Non-Regulated Material
<b>Precautionary Statement(s)</b>	Store in well-closed containers in a dry place protected from excessive heat. Do not expose to direct sunlight.

#### OTHER HAZARDS

The substance does not meet the criteria for PBT or vPvB. And it is not included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, nor a substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 ( <sup>3</sup> ) or Commission Regulation (EU) 2018/605 ( <sup>4</sup> ).

#### FIRE AND EXPLOSION HAZARD:

May form combustible dust concentrations in air. Possibility of dust explosion. it is



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recommended that all dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions. Do not allow dust to accumulate on flat surfaces, on rafters or building structural components. Keep away from all ignition sources including heat, sparks and flame.

**POTENTIAL ACUTE HEALTH EFFECTS FROM OCCUPATIONAL EXPOSURE:**

- Inhalation: Exposure to high airborne concentrations may cause mild respiratory irritation due to drying effects of dust.
- Skin contact: Sustained exposure in a dusty manufacturing environment may result in mechanical irritation in the creases of the skin, particularly at the fingers.  
No health effects known or anticipated.
- Eye contact: May cause slight mechanical irritation from acute exposure.
- Ingestion: No effects known or anticipated.

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**SECTION 3 – COMPOSITION / INFORMATION OF INGREDIENT**

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<b>Chemical Name</b>	Sucralose
<b>Synonym</b>	1,6-Dichloro-1,6-dideoxy-β-D-fructofuranosyl-4-chloro-4-deoxy-α-D-galactopyranoside
<b>Chemical Family</b>	Chlorinated carbohydrate
<b>Chemical Formula</b>	C <sub>12</sub> H <sub>19</sub> Cl <sub>3</sub> O <sub>8</sub>
<b>CAS#</b>	56038-13-2
<b>EINECS#</b>	259-952-2

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**SECTION 4 – FIRST AID MEASURES**

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- General advise:** No special treatment under ordinary circumstances. Use good personal hygiene – wash thoroughly after handling. Seek medical attention if irritation develops after first aid application.
- Eye contact** Remove particulates by irrigation with eye wash solution or clean water, holding eyelids apart .
- Skin contact** Wash skin with soap and water.
- Ingestion** Wash mouth and flush throat up to stomach.
- Inhalation** Move people from the exposure to fresh air.



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**Most Important Symptoms and Effects, both Acute and Delayed**

None Anticipated

**Indication of any immediate medical attention and special treatment needed**

None Anticipated

**Notes to Physician**

Based on extensive toxicological studies, sucralose is safe for human consumption. The material is an intensely sweet, white to off-white powder.

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**SECTION 5 – FIRE - FIGHTING MEASURES**

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**EXTINGUISHING MEDIA**

Water spray, dry powder, carbon dioxide or media appropriate for surrounding fire. Use of water jet may cause explosive dust conditions.

**SPECIFIC HAZARDS**

FIRE AND EXPLOSION HAZARD: Possibility of dust explosion. It is recommended that all dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions. Do not allow dust to accumulate on flat surfaces, on rafters or building structural components. Use of water jet may cause explosive dust conditions.

SEE NFPA 61, Standard for the prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 or later Edition, and other related standards.

Maximal explosion pressure P: 6.7 barg. Dust Class: ST-2. Kst: 225 bar.m.sec-1.

Minimum spark ignition energy: 0.40 Joules minimum ignition temperature 390°C (734°F).

Minimum explosion concentration for dust: 165g/M<sup>3</sup> (0.165 oz/Ft<sup>3</sup>) (similar to a dense fog)

**SPECIFIC PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS**

Wear self-contained breathing apparatus and full protective gear. Use water spray to cool fire exposed containers.

**FLAMMABILITY CLASS (OSHA)**

Not applicable

**HAZARDOUS COMBUSTION PRODUCTS**

Carbon dioxide and carbon monoxide



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**Special Protective Equipment and Precautions for Fire-Fighters**

Wear suitable protective equipment.

Suitable fabric for personal protective clothing (such as “appropriate: Butylene”) should be provided. PVC is not appropriate.

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**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

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<b>Personal Precautions</b>	None under normal conditions. Avoid prolonged inhalation of dust.
<b>Personal Protective Equipment</b>	Wear protective clothing, gloves, and eye protection.
<b>Emergency Procedures</b>	Not available
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. No special environmental precautions required.

**Methods for cleaning Up**

Vacuum or sweep spills. Minimize dust generation.

For contain a spill, covering of drains or capping procedures.

For clean-up a spill, clean-up procedures may taken such as :

Neutralisation techniques

Contamination techniques

Adsorbent materials;

Cleaning techniques;

Vacuuming techniques;

Equipment required for containment/clean-up (include the use of non-sparking tools and equipment where applicable).

If washing down spilled area is necessary, use copious amounts of water and control runoff.

Follow local, state and federal regulations for product disposal.

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**SECTION 7 – HANDLING AND STORAGE**

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**PRECAUTIONS FOR SAFE HANDLING**

See NFPA 61, Standard for the Prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 Edition, and other related standards. Use with adequate ventilation. Minimize dust generation and accumulation; dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are disturbed.



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All dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions and may require explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Bonding and grounding systems may be required.

Dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) should be designed to limit or prevent leakage of dust into the work area.

Do not allow dust to accumulate on flat surfaces, on rafters or building structural components. Routine housekeeping should be instituted to reduce dust accumulation. Use Avoid dispersal of dust in the air; use vacuum or wet sweeping methods. Do not use compressed air to clean surfaces.

Keep away from all ignition sources including heat, sparks, and flame. Where dust accumulations occur use non-sparking tools.

**CONDITIONS OF SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

TECHNO™ Sucralose store in a Controlled Room with temperature below 77°F (25°C) as defined by USP/NF. Storage temperature should not exceed 95°F (35°C) for more than 72 hours in succession. TECHNO™ Sucralose should be stored in a well-closed container in a dry place, and also away from odoriferous materials. Reseal left over materials for future usage. Do not expose to direct sunlight.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Exposure Limits</b>	Nuisance dust (also called particulate not otherwise regulated (PNOR)). OSHA PEL: 15 mg/ mg/M <sup>3</sup> Total dust 5 mg/M <sup>3</sup> Respirable dust ACGIH TLV: 10 mg/M <sup>3</sup> Inhalable dust 5 mg/M <sup>3</sup> Respirable dust 15 mg/M <sup>3</sup> Total dust
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<b>Exposure controls</b>	APPROPRIATE ENGINEERING CONTROLS: Ventilation: See NFPA 61, Standard for the Prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 Edition, and National Fire Protection Association 650, Standard for Pneumatic
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	Conveying Systems for Handling Combustible Materials, 1997 Edition and other related standards. Normal industrial hygiene measures should be sufficient for protection of employees from exposure to dusts. Local and mechanical exhaust is desirable when dumping bags.
<b>Eye / Face protection</b>	Safety glasses are recommended. Safety goggles are desirable when dumping bags or European Standard EN166.
<b>Skin Protection</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Respiratory Protection</b>	NIOSH approved N-95 dust respirator if working in situations that could generate large amounts of airborne dust.
<b>Emergency wash facilities</b>	Eye wash is recommended for conditions where dust generation is likely.
<b>Other/General Protection</b>	Use good industrial hygiene practices.

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## SECTION 9 – PHYSICAL AND CHEMICAL PORPERTIES

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Appearance	A white to off-white powder
Odor	Practically odorless
Viscosity	No data
Boiling Point	130°C(266°F)with decomposition
Molecular Formula	C <sub>12</sub> H <sub>19</sub> Cl <sub>3</sub> O <sub>8</sub>
Molecular Weight	397.63 g/mol
Flash point	358.7°C
Melting/freezing point	No data
Decomposition temperature	No data
Auto-ignition temperature	No data
Explosion properties	No data
Oxidising properties	No data
Vapour pressure	<1 mmHg
Vapour density	No data
Relative density	No data
Tap density	0.92 g/ml
Bulk density	0.81 g/ml
Specific gravity	1.66(20°C)
Water solubility	Complete 30% w/v at 25°C (77°F)



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Solubility (non aqueous)	No data
Partition coefficient	No data
Dissociation constant	No data
Evaporation rate	No data

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**SECTION 10 – STABILITY AND REACTIVITY**  
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**Reactivity**

Stable

**Chemical Stability**

Sucralose, when heated at elevated temperatures, may break down with the release of carbon dioxide, carbon monoxide and minor amounts of hydrogen chloride.

**Possibility of Hazardous Reactions**

None applicable

**Conditions to Avoid (Stability)**

TECHNO™ Sucralose store in a Controlled Room with temperature below 77°F (25°C) as defined by USP/NF. Storage temperature should not exceed 95°F (35°C) for more than 72 hours in succession.

TECHNO™ Sucralose store in a well-closed container in a dry place, and also away from odoriferous materials. Reseal left over materials for future usage.

Do not expose to direct sunlight.

Practices which produce dust or disperse finely divided dust in air.

See NFPA 61. Standard for the Prevention of Fire and Dust Explosions in Agricultural and Food

Processing Facilities, 2008 Edition, and other related standards.

**Incompatible Materials**

Oxidizing agents, strong acids.

**Hazardous Decomposition Products**

Nothing unusual

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**SECTION 11 – TOXICOLOGICAL INFORMATION**  
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**INFORMATION ON TOXICOLOGICAL EFFECTS**



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- Inhalation Exposure to high airborne concentrations may cause mild respiratory irritation due to drying effects of dust.  
ORAL: LD50 Oral rat LD50 > 10g/kg; Oral mouse LD50 > 16g/kg
- Ingestion No effects known or anticipated.
- Skin irritation / corrosion Sustained exposure in a dusty manufacturing environment may result in mechanical irritation in the creases of the skin, particularly at the fingers, or other drying effects. no health effects known or anticipated.
- Eye irritation May cause slight mechanical irritation from acute exposure.
- Skin sensitisation Not sensitizing
- Chronic toxicity Not known or anticipated
- Genetic toxicity Not known or anticipated
- Carcinogenicity Not classifiable as Carcinogen
- Reproductive toxicity Not known or anticipated
- Specific effects Not applicable

Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System)

No data available

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System)

No data available

Symptoms Related to Exposure

No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

Potential Health Effects

No specific information available; skin and eye contact may result in irritation. May be harmful if inhaled or ingested.

**SECTION 12 – ECOLOGICAL INFORMATIN**

- TOXICITY** Sucralose and its breakdown products are not known to be toxic to plant and animal life.
- PERSISTENCE/DEGRADABILITY** Readily biodegradable
- BIOACCUMULATIVE POTENTIAL** Sucralose and its breakdown products are not fat-soluble, and do not accumulate in plant or animal tissue.
- MOBILITY IN SOIL** Not applicable





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<b>PBT, vPvB</b>	The substance does not meet the criteria for PBT or vPvB.
<b>ENDOCRINE DISRUPTING</b>	Not applicable
<b>OTHER ADVERSE EFFECTS</b>	None known

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**SECTION 13 – DISPOSAL CONSIDERATIONS**  
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**WASTE TREATMENT METHODS** Follow local, state and federal regulations for product disposal. Not a hazardous waste unless contaminated with hazardous products.

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**SECTION 14 – TRANSPORT INFORMATION**  
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<b>UN or ID number</b>	Not applicable, Non-hazardous for transportation
<b>Transport hazard class(es)</b>	Non-hazardous for transportation
<b>DOT (US)</b>	Non-hazardous for transportation
<b>IATA/OACI</b>	Non-hazardous for transportation
<b>IMDG</b>	Non-hazardous for transportation

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**SECTION 15 – REGULATORY INFORMATION**  
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**SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS**

According with the version of the Globally Harmonized System of Classification and labelling adopted in the United States and EC Regulation 1272/2008/EC(CLP): Not classified

**CHEMICAL SAFETY ASSESSMENT**

**US FEDERAL REGULATIONS:**

Clean Air Act:

ODS: Not applicable.

SARA (EPCRA) Section 313 (40 C.F.R. § 372.65): Not applicable.

TSCA Status: On TSCA inventory.

**STATE REPORTING REQUIREMENTS:**

California Proposition 65: Not applicable.



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**SECTION 16 – OTHER INFORMATION**  
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See Hazard Communication Guidance for Combustible Dusts, OSHA 3371-08 2009, U.S. Occupational Safety and Health Administration, <https://www.osha.gov/Publications/3371combustible-dust.html> (accessed 10/8/14)

NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for general safe handling and design guidance.

Safety Data Sheet according to COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Safety Data Sheet is compliant with Regulation (EC) 1907/2006 (REACH) and Regulation (EC) 1272/2008 (CLP) (or Regulation (EU) 2020/878).

**DISCLAIMER OF LIABILITY**

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