

Material Safety Data Sheet

Section 1 Product identification

Product name Sucralose

Chemical name 1,6-Dichloro-1,6-dideoxy- β -D-fructofuranosyl-4-chloro-4-deoxy- α -D-galactopyranoside

Chemical formula C₁₂H₁₉Cl₃O₈

Manufacturer's Name: JK BIO-CHEM CO.,LTD

Manufacturer's Address:

Manufacturer's Country: China

CHINA General Information Telephone:

MSDS Preparer's Name: NOT PROVIDED Proprietary: N Reviewed: Y Published: Y

Section 2 Composition, information on ingredients

CAS 56038-13-2 Purity 98.0 – 102.0% EINECS 259-952-2

Section 3 Hazards identification

Potential health effects No effects expected Primary route(s) of entry Inhalation / Ingestion Eyes No effects expected Skin No effects expected Ingestion Material is an intensely sweet and crystalline solid Inhalation Exposure to high airborne concentration may cause mild respiratory irritation Subchronic (Target Organ Effects) No subchronic effects Chronic (Cancer) No chronic effects Epidemiology No epidemiology effects Teratogenicity No teratogenic effects Neurotoxicity No neurotoxicity effects Mutagenicity No mutagenic effects

Section 4 First Aid measures

Eyes No special treatment under normal circumstances – flush with water

Skin No special treatment under normal circumstances

Inhalation No special treatment under normal circumstances

Ingestion No special treatment under normal circumstances

Notes to physician Material is an intensely sweet, crystalline solid. Exposure to high airborne concentration may cause mild respiratory irritation

Section 5 Fire fighting measures

Stable under normal conditions. Dust Hazard Classification (NFPA-68) is St-2, the formation of flammable / explosive air / dust mixtures is possible. Appropriate measures should be employed to minimize the potential for dust concentrations in the flammable range.

As in any fire, wear a self-contained breathing apparatus in pressure-demand. Extinguishing media Carbon dioxide, water spray, foam or dry chemical NFPA Rating NFPA dust explosion rating is same as other common food

ingredients, such as sugar

Section 6 Accidental release measures

No special clean-up procedure is necessary. Avoid creating conditions that will contribute to high concentrations of Sucralose dust. Carefully sweep or vacuum up into waste container.

Section 7 Handling and storage

Store in a cool, dry place, keep container closed when not in use. Handling / Storage Avoid creating dusty conditions Storage precautions Normal work / hygienic practices

Section 8 Exposure controls, personal protection

Engineering controls It is recommended that all dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions

Eye / Face protection Eye protection is not required (but recommended) Skin protection Use good industrial hygiene practices Respiratory protection No special respiratory protection is required under normal

circumstances General protection Use good industrial hygiene practices

Section 9 Physical and Chemical properties

Appearance white, crystalline powder

Odour odourless

Specific rotation $\alpha_{20 D} +84.0 \sim +87.5^\circ$ (10% w/v solution)

Melting point 125.5 °C

Solubility in water totally 30% w/v at 25 °C

Section 10 Stability and Reactivity

Chemical stability stable under normal temperatures and pressures

Conditions to avoid dusting of material

Incompatibilities with other materials none identified

Hazardous decomposition products volatile organic compounds (e.g. carbon dioxide, methane) and hydrogen chloride

Hazardous polymerisation will not occur

Section 11 Toxicological information

Acute toxicity Material is a non-toxic food additive. Oral rat LD50 > 10 g/kg. Not metabolised; considered non-toxic.

Eye effects none

Skin effects none

Acute oral effects none

Acute inhalation effects none

Subchronic none

Chronic none
Epidemiology none
Teratogenicity none
Reproductive effects none
Neurotoxicity none
Mutagenicity none

Section 12 Ecological information

Accute and long-term toxicity to fish and invertebrates none
Toxicity to aquatic and terrestrial plants none
Acute and dietary toxicity to birds none
Toxicity to beneficial microorganisms none
Environmental fate information no effects

Section 13 Disposal considerations

No special disposal considerations. Dispose in accordance with federal, state and local regulations

Section 14 Transportation information

Transport information No special considerations

Section 15 - Regulatory Information

None of the chemicals are on the Classification and labels of dangerous chemical substances sommonly used(GB 13690-1992) list None of the chemicals are on the List of dangerous g ds(GB12268-2005) list

Section 16 - Additional Information

This information is presented in good faith for consideration, investigation and verification. Whilst care has been taken to ensure accuracy, legal liability is excluded to the extent permitted by current legislation. No freedom from patents is implied. Date of issue: 15.06.2006
Version number: 1.04