Altus science

Material Safety Data Sheet

Sucrose Solutions

Section 1. Identification of Product and Company

1.1 Identification of substance or preparation: Sucrose Solutions

Synonyms: Table sugar solution, Saccharose solution

1.2 Product Application: This MSDS provides Health and Safety information from any Sucrose (un-acidified) component of the following vials or kits:

Altus Science Part Number	Product Name/Description/Range
(K) = Kit A-3400(K), A-3402, A-3404, A-3406, A-3407, A-3408(K), A-3411, A-3412, A-3413, A-3414, A-3416, A-4020(K), A-4025(K), A-4030(K), A-4040(K), A-4042, A-4050(K), A-4051(K), A-4055(K), A-4070(K), A-4080(K), A-4090(K), A-4100(K), A-4702, A-4703, A-4704, A-4713, A-4720, A-4768, A-47070(K), A-47075(K), A-47076(K), A-47100(K), A-47101, A-47200(K), A-47300(K), A-47310(K), A-4800, A-4890, A-6001(K), A-6020(K), A-3004, A-3905(K), A-3910(K)	Total Organic Carbon (TOC) Calibration Standard, From 0.100mg/L C up to 1000mg/L C from Sucrose

1.3 Company/Undertaking Identification:

Altus Science Limited
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1.4 Emergency Telephone: +44(0) 1925 606 528

Section 2. Hazards Identification

2.1 Hazard Summary:

Physical hazards: Not classified for physical hazards
Health hazards: Not classified for health hazards
Environmental hazards: Not classified for hazards to the environment

2.2 Label elements:

Contains: Sucrose, Water
Supplemental label information: Not applicable

2.3 Other hazards: Not assigned

Section 3. Composition/Information on Ingredients

3.1 Mixtures:

Chemical description: Sucrose solution

Compound Name	CAS-No.	EC No.	Concentration	CLP Classification - Reg No.
Water	7732-18-5	231-791-2	≥99.9%	Not applicable
Sucrose	57-50-1	200-334-9	≤0.10%	Not applicable

Section 4. First Aid Measures

4.1 Description of first aid measures:

Skin Contact: No treatment required
Eye Contact: Flush eyes with water as a precaution
Ingestion: No treatment required
Inhalation: No treatment required

4.2 Most important symptoms and effects, both acute and delayed: Not applicable

4.3 Indication of any immediate medical attention and special treatment needed: Not available

Section 5. Fire Fighting Measures

5.1 Extinguishing media:

Suitable Extinguishing Media: This product does not represent a fire hazard since it contains a significant proportion of water
Unsuitable Extinguishing Media: None

5.2 Special hazards arising from the substance or mixture: None known

5.3 Advice for fire-fighters:

Special protective equipment for fire-fighters: No special protective equipment required
Special fire-fighting procedures: Not applicable

5.4 Further information: No data available

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Not required
For emergency responders: Use personal protection recommended in Section 8 of the MSDS

6.2 Environmental precautions: No special environmental precautions required

6.3 Methods and materials for containment and clean up:

- Spills of the product could present a significant slip hazard depending on quantity and surface type
- Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements
- Contain and recover by physical means
- Clean small spills by diluting with sufficient quantities of water

6.4 Reference to other sections: Please refer to Section 8 for further information

Section 7. Handling and Storage

7.1 Precautions for safe handling: No special requirements

7.2 Conditions for safe storage, including any incompatibilities: Reasonable and safe chemical storage. Store in a closed container in a well ventilated storage area, away from incompatible materials

7.3 Specific end use(s): For professional and industrial users only

Section 8. Exposure Controls/Personal Protection

8.1 Control parameters

Occupational exposure limits - UK EH40 Workplace Exposure Limits (WEL's):

Components	Type	Value
Sucrose (57-50-1)	STEL	20mg/m3
	TWA	10mg/m3

8.2 Exposure controls:

Biological Limit Values: No biological exposure limits noted for the ingredient(s)
Recommended monitoring procedures: Not available
Environmental exposure controls: Not applicable
Appropriate engineering controls: None recommended

Personal protective equipment:
Eye/face protection: None
Skin protection: No special protective equipment required
Body protection: None required
Respiratory protection: Not required

Section 9. Physical and Chemical Properties

9.1 Physical and Chemical Properties:

Characteristic		Description
Appearance	***Physical State***	Liquid
	Colour	Colourless
Odour		None
Odour Threshold		Not available
pH (Concentrated product)		6.5
Melting point/freezing point		0°C
Initial boiling point and boiling range		100°C
Flash point		>100°C Pensky Martens (CC)
Evaporation rate		1 (Water=1)
Flammability (solid, gas)		Not available
Flammable Limit - lower		Not available
Flammable Limit - upper		Not available
Vapour pressure		18mm Hg at 21°C
Vapour density		Not applicable
Relative density		1
Water solubility		Completely soluble
Partition coefficient (n-Octanol/water)		Not available
Auto-ignition temperature		Not available
Decomposition temperature		Not available
Viscosity		Not available
Explosive properties		Not applicable
Oxidizing properties		Not applicable

9.2 Other safety information: No relevant additional information available

Section 10. Stability and Reactivity

10.1 Reactivity: Not available

10.2 Chemical Stability: Material is stable under normal conditions

10.3 Possibility of hazardous reactions: Hazardous polymerisation does not occur

10.4 Conditions to avoid: No special requirement

10.5 Incompatible materials: None known

10.6 Hazardous decomposition products: None known

Section 11. Toxicological Information

11.1 Information on toxicological effects:

Product/Component	LD50 Oral	LD50 Dermal
Sucrose Solutions (Mixture)	Rat:>5000mg/kg (Calculated data)	Rabbit:>5000mg/kg (Calculated data)
Sucrose	Acute Oral. Rat: 29700mg/kg	Not applicable

Acute toxicity: Not classified

Skin corrosion/irritation: Not classified

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Information on likely routes of exposure:
Ingestion: None known
Inhalation: None known
Skin contact: Repeated exposure may cause skin dryness or cracking
Eye contact: Prolonged or repeated contact may cause transient irritation

Signs and symptoms of Exposure: Not available

Mixture versus substance information: Not available

Additional information: Not available

Section 12. Ecological Information

12.1 Toxicity: No toxicity data noted for the ingredient(s)

12.2 Persistence and degradability: No data available

12.3 Bio accumulative potential: Not available

12.4 Mobility in soil: Not available

12.5 Results of PBT and vPvB assessment: Not available

12.6 Other adverse effects: Not available

12.7 Summary: The product is not classified as dangerous for the environment. The evaluation of the environmental hazards is based on the concentration limits set out in directive 1999/45/EC

Section 13. Disposal Considerations

13.1 Waste treatment methods:

Product - According to Controlled Waste Regulations:
European Waste Code (EWC) recommendation: 16 03 06
16 Wastes not otherwise specified in the list
16 03 Off-specification batches and unused products
16 03 06 Organic wastes
Depending on the origin and state of waster, other EWC numbers may be applicable too

Contaminated packaging - According to Controlled Waste Regulations:
European Waste Code (EWC) recommendation: 15 01 02
15 Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01 Packaging (including separately collected municipal packaging waste)
15 01 02 Plastic packaging
15 01 06 Glass packaging
Depending on the origin and state of the waste, other EWC numbers may be applicable too

Section 14. Transport Information

14.1 ADR: Not regulated as dangerous goods

14.2 RID: Not regulated as dangerous goods

14.3 ADN: Not regulated as dangerous goods

14.4 IATA: Not regulated as dangerous goods

14.5 IMDG: Not regulated as dangerous goods

14.6 Special precautions for user: No data available

Section 15. Regulatory Information

15.1 Safety, health and environment regulations/legislation specific for the substance or mixture: No data available

15.2 Chemical safety assessment: No data available

15.3 Other regulations: This product does not need to be labelled in accordance with EC directives or respective national laws.

Section 16. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on present state of knowledge and is applicable to the product with regard to appropriate safety precautions. Altus Science Ltd shall not be held liable for any damage resulting from handling or from contact with the above product. Please refer to Terms and Conditions for further information of sale.

Abbreviations

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

RID - International Rule for Transport of Dangerous Substances by Railway

ADN - International Carriage of Dangerous Goods by Inland Navigation

IATA - International Air transport Association

IMDG - International Maritime Dangerous Goods Code

WEL - Workplace Exposure Limit

TWA - Time weighted Average

STEL - Short-term Exposure Limit

vPvB - Very persistent, very Bio accumulative