Infosafe No™	1CHAL	Issue Date : December 2017	RE-ISSUED by CHEMSUPP

Product Name : **STARCH INDICATOR For Iodometry**

Not classified as hazardous

1. Identification

GHS Product Identifier: STARCH INDICATOR For Iodometry

Company Name: CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

Address: 38 - 50 Bedford Street GILLMAN
SA 5013 Australia

Telephone/Fax Number: Tel: (08) 8440-2000
Fax: (08) 8440-2001

Recommended use of the chemical and restrictions on use: Iodometric indicator (starch solution is used to test for iodine); used in redox titrations; laboratory reagent.

Other Names

Name	Product Code
STARCH INDICATOR For Iodometry LR	SL127

Additional Information: Directions: Use approximately 0.2-0.5 g of Starch Indicator to the solution to be titrated. A deep blue colour indicates the presence of free iodine.

Other Information: EMERGENCY CONTACT NUMBER: +61 08 8440 2000
Business hours: 8:30am to 5:00pm, Monday to Friday.

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture: Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients

Chemical Characterization: Solid

Ingredients

Name	CAS	Proportion	Hazard Symbol	Risk Phrase
Amylodextrin	9005-84-9	100 %		

4. First-aid measures

Inhalation: Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered.

Ingestion: Rinse mouth thoroughly with water immediately. Give plenty of water to drink. Never give anything by mouth to an unconscious person. If swallowed, do NOT induce vomiting. Seek medical attention in severe cases.
Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING.

Skin: Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse. Seek medical attention in severe cases, or if irritation develops.

Eye contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the chemical is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If persistent irritation occurs, obtain medical attention.

First Aid Facilities: Maintain eyewash fountain and drench facilities in work area.

Advice to Doctor: Treat symptomatically and supportively.

Other Information: For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products	Irritating and highly toxic gases, heavy, black acrid smoke, carbon monoxide and carbon dioxide.
Specific Methods	Small fire: Use dry chemical, CO2, water spray or foam. Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.
Specific hazards arising from the chemical	May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.
Decomposition Temp.	256-258 °C (melting point)
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions	Avoid inhalation, contact with skin, eyes and clothing.
Personal Protection	Use personal protective equipment listed in Section 8.
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling	Avoid ingestion and inhalation of dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Minimize dust generation and accumulation. Keep containers closed when not in use. Use in designated areas with adequate ventilation. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.
Conditions for safe storage, including any incompatabilities	Store in tightly closed, labelled containers, in a cool, dry, well-ventilated area, away from incompatible materials. Protect from physical damage, direct sunlight, sources of heat and moisture. Store away from oxidizing agents. Inspect periodically for deficiencies such as damage or leaks.
Storage Temperatures	Store at room temperature (15 to 25 °C recommended).

8. Exposure controls/personal protection

Other Exposure Information	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m³ for dusts when limits have not otherwise been established.
Appropriate engineering controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
Hand Protection	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Excellent: NR latex, vinyl, nitrile, neoprene gloves.
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
Body Protection	Clean clothing or protective clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Solid
Appearance	White, free flowing, powdered solid, amorphous powder or granules.
Odour	Odourless or slight characteristic odour.
Decomposition Temperature	256-258 °C (melting point)
Melting Point	256-258 °C (decomposes).
Solubility in Water	Soluble in water. (50g/l at 90°C)
Specific Gravity	1.0384; ca. 1.5.
pH	5.0-7.0 (25 °C, 2% in solution).
Volatile Component	0 %vol @ 21 °C
Flammability	Combustible.
Auto-Ignition Temperature	>380 °C
Explosion Properties	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Minimum ignition energy > 30 m (Depends on particle size, moisture content, etc.). Minimum ignition temperature, cloud: 430 °C.
Molecular Weight	162.067

10. Stability and reactivity

Chemical Stability	Stable under normal temperatures and pressures and conditions of use and storage.
Conditions to Avoid	Extremes of temperature, excess heat, flames, ignition sources, direct sunlight, dust generation and incompatible materials.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Irritating and highly toxic gases, heavy, black acrid smoke, carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Reaction with strong oxidizing agents may cause fire.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	Not expected to be a health hazard. A major component of many foods. Ingestion may cause gastrointestinal irritation with nausea, vomiting and diarrhoea.
Inhalation	Inhalation of dusts may cause mild irritation of the nose, throat and respiratory system. Symptoms are similar to those caused by nuisance dust: coughing, sneezing.
Skin	May cause slight skin irritation, resulting in redness and itching. May be harmful if absorbed through the skin.
Eye	No adverse effects expected but dust may cause mechanical eye irritation, tearing, stinging, blurred vision, and redness.
Carcinogenicity	Not listed in the IARC Monographs.
Chronic Effects	Prolonged or repeated exposure to this material will result in skin irritation leading to possible dermatitis.

12. Ecological information

Ecological Information	No ecological problems are to be expected when the product is handled and used with due care and attention.
Ecotoxicity	Quantitative data on the ecological effect of this product are not available.
Persistence and degradability	Readily biodegradable. BOD: 0.81 g/g (25 °C) (sea water); TOD: 1.18 g/g.

13. Disposal considerations

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Disposal Considerations	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. Regulatory information

Poisons Schedule	Not Scheduled

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons No. 15', Commonwealth of Australia, November 2016. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Substances Information System, 2005'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.
Contact Person/Point	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
Empirical Formula & Structural Formula	(C6-H10-O5)n

...End Of MSDS...