SAFETY DATA SHEET

Creation Date 04-Apr-2014 Revision Date 04-Apr-2014 Revision Number 1

1. Identification

Product Name Thyodene™ (Starch Soluble) Indicator

Cat No.: T138-100; T138-500

Synonyms a-Amylodextrin; amylodextrin; starch

Recommended Use Laboratory chemicals

Uses advised against No Information available

Details of the supplier of the safety data sheet

CompanyEmergency Telephone NumberFisher ScientificCHEMTREC®, Inside the USA: 800-

One Reagent Lane 424-9300

Fair Lawn, NJ 07410 CHEMTREC®, Outside the USA: 001-

Tel: (201) 796-7100 703-527-3887

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements

None required.

Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

Haz/Non-haz

Component	CAS-No	Weight %
Soluble Starch	9005-84-9	100.0

4. First-aid measures

Eye Contact Rinse with plenty of water. Get medical attention if symptoms occur..

Skin Contact Rinse with plenty of water. Get medical attention if symptoms occur..

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.

Ingestion Do not induce vomiting. Get medical attention if symptoms occur.

Most important symptoms/effectsNo information availableNotes to PhysicianTreat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire..

Unsuitable Extinguishing Media No information available.

Flash Point Not applicable

Method - No information available

unition Temperature No information available.

Autoignition Temperature

Explosion Limits
Upper

Lower

No data available No data available

Sensitivity to Mechanical

Impact

No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Non-combustible. None reasonably foreseeable.

Hazardous Combustion Products Carbon monoxide (CO), Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA

Up

HealthFlammabilityInstabilityPhysical hazards00N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

Environmental Precautions Avoid release to the environment.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust

formation.

7. Handling and storage

Handling Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid

contact with skin and eyes. Avoid ingestion and inhalation.

Keep containers tightly closed in a dry, cool and well-ventilated place. Storage

8. Exposure controls / personal protection

This product does not contain any hazardous materials with occupational exposure limits **Exposure Guidelines**

established by the region specific regulatory bodies.

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and **Engineering Measures**

safety showers are close to the workstation location.

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's **Eye/face Protection**

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN

149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. Physical and chemical properties

Physical State Solid White **Appearance** Odorless Odor

Odor Threshold No information available. 5 - 7 (2 % Solution)

256.1 - 257.7°C / 493 - 495.9°F **Melting Point/Range**

Boiling Point/Range Not applicable

Flash Point Not applicable

No information available. **Evaporation Rate** Flammability (solid,gas) No information available

Flammability or explosive limits

No data available Upper Lower No data available **Vapor Pressure** No information available. No information available. **Vapor Density**

1.0384 **Relative Density**

Solubility Soluble in water No data available Partition coefficient; n-octanol/water

No information available. **Autoignition Temperature Decomposition temperature** No information available. **Viscosity** No information available.

Molecular Formula C6H10O5X **Molecular Weight** 162.067

10. Stability and reactivity

Reactive Hazard None known, based on information available.

Stability Stable under recommended storage conditions.

Conditions to Avoid Avoid dust formation. Excess heat.

Thermo Fisher Scientific - Thyodene™ (Starch Soluble) Indicator

Incompatible Materials None known

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO₂)

Hazardous Polymerization Hazardous polymerization does not occur

Hazardous Reactions None under normal processing

11. Toxicological information

Acute Toxicity

Component Information

Toxicologically Synergistic

No information available.

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

IrritationNo information available.SensitizationNo information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

	Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
ſ	Soluble Starch	9005-84-9	Not listed					

Mutagenic EffectsNo information available.Reproductive EffectsNo information available.Developmental EffectsNo information available.TeratogenicityNo information available.

STOT - single exposure None known.
STOT - repeated exposure None known.

Aspiration hazard

No information available.

Symptoms / effects,
both acute and delayed

No information available.

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains

Persistence and Degradability

Bioaccumulation/ Accumulation

No information available

Mobility

No information available

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

14. Transport information

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Soluble Starch	X	X	-	232-686-4	-		X	X	Χ	X	Х

Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration

Not applicable

CERCLANot Applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

State Right-to-Know Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class Non-controlled

16. Other information

Prepared By Regulatory Affairs

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS