

SAFETY DATA SHEET

Creation Date 09-Dec-2010

Revision Date 24-Jan-2018

Revision Number 3

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I. I	dentification

Product Name

AC419690000; AC419690025; AC419695000

CAS-No Synonyms

Cat No. :

9005-25-8 Potato starch: iodine indicator.; Corn starch

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

STARCH

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

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

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

None required

Hazards not otherwise classified (HNOC) None identified

Unknown Acute Toxicity

.? percent of the mixture consists of ingredient(s) of unknown acute toxicity

3. Composition/Information on Ingredients								
Component		CAS-No	Weight %					
Starch		9005-25-8	100					
4. First-aid measures								
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. medical attention.								
Skin Contact	Wash off imn	nediately with plenty of water. Get medie	cal attention if symptoms occur.					
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.							
Ingestion	Do NOT indu	ice vomiting. Get medical attention if syn	mptoms occur.					
Most important symptoms and effects	No information	on available.						
Notes to Physician	an Treat symptomatically							
	5. Fi	re-fighting measures						
Suitable Extinguishing Media	Water spray.	Carbon dioxide (CO 2). Dry chemical. C	hemical foam.					
Unsuitable Extinguishing Media	No information	on available						
Flash Point Method -	No information No inf							
Autoignition Temperature	400 °C / 7	52 °F						
Explosion LimitsUpperNo data availableLowerNo data availableSensitivity to Mechanical ImpactNo information availableSensitivity to Static DischargeNo information available								
Specific Hazards Arising from the Chemical Thermal decomposition can lead to release of irritating gases and vapors.								
Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxide (CO ₂). 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

Health 0	Flammability 0	Instability 0	Physical hazards N/A						
	6. Accidental release measures								
Personal Precautions	Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.								
Environmental Precautions	See Section 12 for addition	al Ecological Information.							

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Up

7. Handling and storage

Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes.

Storage

Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Starch	TWA: 10 mg/m ³	(Vacated) TWA: 15 mg/m ³ (Vacated) TWA: 5 mg/m ³ TWA: 15 mg/m ³ TWA: 5 mg/m ³	TWA: 10 mg/m³ TWA: 5 mg/m³	TWA: 10 mg/m³

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's 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

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Physical State	Powder Solid
Appearance	Off-white
Odor	Odorless
Odor Threshold	No information available
рН	5 - 7 (2%)
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	negligible
Vapor Density	Not applicable
Specific Gravity	1.5

Solubility Partition coefficien Autoignition Tempo Decomposition Ter Viscosity Molecular Formula	erature	400 °C / 752 °F					
10. Stability and reactivity							
Reactive Hazard		None known, base	d on information a	vailable			
Stability		Stable under norm	al conditions.				
Conditions to Avoid	d	Avoid dust formation	on. Incompatible p	roducts. Excess he	eat.		
Incompatible Mater	ials	Strong oxidizing ag	gents				
Hazardous Decomp	osition Products	Carbon monoxide	(CO), Carbon diox	ide (CO2)			
Hazardous Polyme	rization	Hazardous polyme	erization does not	occur.			
Hazardous Reactio	ns	None under norma	I processing.				
	11. Toxicological information						
Acute Toxicity							
Product Information Oral LD50 Dermal LD50 Mist LC50 Vapor LC50 Component Informa Toxicologically Syr Products Delayed and immed	ation nergistic	Based on ATE dat Based on ATE dat Based on ATE dat No information ava	a, the classification a, the classification a, the classification a, the classification ailable	n criteria are not m n criteria are not m n criteria are not m n criteria are not m	et. ATE > 2000 mg et. ATE > 2000 mg et. ATE > 5 mg/l. et. ATE > 20 mg/l.		
Irritation		No information ava					
Sensitization		No information available					
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed any ingredient a	as a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Starch Mutagenic Effects	9005-25-8	Not listed No information ava	Not listed ailable	Not listed	Not listed	Not listed	
Reproductive Effec	ts	No information available.					
Developmental Effe	ects	No information available.					
Teratogenicity	penicity No information available.						
STOT - single expo STOT - repeated ex		None known None known					
Aspiration hazard		No information available					

 $\ensuremath{\textit{Symptoms}}$ / effects,both acute and $\ensuremath{\,No}$ information available delayed

Endocrine Disruptor Information	No information available				
Other Adverse Effects	The toxicological properties have not been fully investigated.				
	12. Ecological information				
<u>Ecotoxicity</u> Do not empty into drains.					
Persistence and Degradability	Persistence is unlikely based on information available.				
Bioaccumulation/ Accumulation	No information available.				
Mobility	Will likely be mobile in the environment due to its water solubility.				
	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				
DOT	Not regulated				
TDG	Not regulated				
IATA	Not regulated				
IMDG/IMO	Not regulated				

15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Starch	9005-25-8	Х	ACTIVE	XU

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

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)

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Starch	9005-25-8	Х	-	232-679-6	Х	Х	Х	Х	KE-32128

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable

OSHA - Occupational Safety and Not applicable Health Administration					
CERCLA	Not a	oplicable			
California Proposition 65	5 This p	roduct does not conta	in any Proposition 65 c	hemicals.	
U.S. State Right-to-Know Regulations	v				
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Starch	Х	-	X	-	Х
U.S. Department of Trans Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollut U.S. Department of Home Security	N N tant N	roduct does not conta	in any DHS chemicals.		
<u>Other International Regu</u> Mexico - Grade		ormation available			
		16. Other in	formation		

16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	09-Dec-2010 24-Jan-2018 24-Jan-2018 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 in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS