

MATERIAL SAFETY DATA SHEET

I. MANUFACTURER / PRODUCT IDENTIFICATION

Product Identification

Product Name: ALL-STAR Instant Laundry Starch

CAS Number: 9005-25-8

Empirical Formula: $(C_6H_{10}O_5)_n$ Carbohydrate

Company Information

Allied Starch & Chemical, Inc.

121 Royal Road

Keokuk, Iowa 52632

1-319-524-4080

Date Prepared: 06/15/04

Supersedes Date: 12/19/03

NFPA Hazard Code:

Health - 0, Flammability -1, Reactivity - 0

II. HAZARDOUS INGREDIENTS

Chemical Name

NO REPORTABLE HAZARDOUS MATERIALS

Amount

NR

CAS Number

NR

EXPOSURE GUIDELINES:

No information Available

III. PHYSICAL DATA / CHEMICAL CHARACTERISTICS

FORM.....: Coarse, white powder

COLOR.....: White

ODOR..... Pleasant spice odor

SOLUBILITY IN WATER...	Appreciable
------------------------	-------------

SPECIFIC GRAVITY..... 1.5 - 1.6 (H₂O = 1)

IV. FIRE AND EXPLOSION HAZARD DATA

FLAMMABLE PROPERTIES

Flash Point: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

(section IV, continued)

EXTINGUISHING MEDIA:

Water, CO₂, foam, or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES:

Avoid creating dust that could cause secondary explosion.

UNUSAL FIRE AND EXPLOSION HAZARDS:

Starch dusts at sufficient concentrations can form explosive mixtures with air. The minimum ignition temperature reported, through a 200 mesh sieve, is 380°C. The minimum explosive concentration of a dust cloud is 0.04 oz./cu.ft. Avoid open lights, flames, welding, and spark producing sources.

V. REACTIVITY DATA

STABILITY:

Stable

CONDITIONS TO AVOID:

Damp or wet conditions will lead to spoilage.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Oxides of carbon.

HAZARDOUS POLYMERIZATION:

Will not occur.

VI. HEALTH HAZARD DATA

INHALATION RISKS AND SYMPTOMS OF EXPOSURE:

May cause irritation to respiratory system.

SKIN / EYE CONTACT RISKS AND SYMPTOMS OF EXPOSURE:

Dust may be irritating to eyes

SKIN ABSORPTION RISKS AND SYMPTOMS OF EXPOSURE:

Not an irritant and not toxic.

INGESTION RISKS AND SYMPTOMS OF EXPOSURE:

Not toxic according to Federal Hazardous Substance and Labeling Definition Act.

HEALTH HAZARDS (ACUTE AND CHRONIC) :

This material is not manufactured to contain any hazardous components. In eyes or respiratory system it may cause irritation if heavy concentrations are encountered.

CARCINOGENICITY INFORMATION:

Not listed by IARC or NTP as a carcinogen.

(section VI. continued)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

None known.

EYE CONTACT FIRST AID:

Flush eye with water for 15 minutes.

SKIN CONTACT FIRST AID:

Wash with soap and water.

INHALATION FIRST AID:

Remove to fresh air.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

ACTIONS IF MATERIAL IS RELEASED OR SPILLED:

Sweep up with explosion-proof vacuum cleaner. Avoid causing dust in air (Refer to Section IV).

WASTE DISPOSAL METHOD:

Dispose of in a manner that is in accordance with federal, state, and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store away from heat sources. Do not create excessive dust (Refer to Section IV). Best storage is realized at dry, cool conditions. Store in an odor-free area.

OTHER PRECAUTIONS:

Enforce "No Smoking Rules". Excessive concentrations of nuisance dusts in workroom air may seriously reduce visibility.

VIII. CONTROL MEASURES

RESPIRATORY PROTECTION:

Dust respirator may be desirable.

VENTILATION:

Explosion proof desirable when dumping product (local and mechanical).

PROTECTIVE GLOVES:

Not required.

EYE PROTECTION:

Goggles desirable when dumping product.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

None required.

WORK / HYGENIC PRACTICES:

Observe reasonable care, cleanliness, and caution. Avoid creation of dust (Refer to Section IV).

IX. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA):

All components of this product are on the EPA's TSCA Inventory or are exempt from TSCA Inventory requirements.

The composition is a trade secret.

CANADIAN DOMESTIC SUBSTANCES LIST (DSL):

Included in Inventory

X. DISCLAIMER

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

END OF MSDS
