



Material Safety Data Sheet: Dessicant Paper

1. Identification of the substance/preparation and the company

Substance: Dessicant Paper

Application: Drying Agent

Company:

IMPAK Corporation
13700 South Broadway
Los Angeles, CA 90061

2. Composition/Information of ingredients

Silica, amorphous, precipitated and gel

Weight %: 50-75

CAS No.: 112926-00-8

Hazard symbols: --

R-phrased: --

Index No.: --

EINECS No.: --

Cellulose Pulp

Weight %: 20-30

CAS No.: 65996-61-4

Hazard symbols: --

R-phrases: --

Index No.: --

EINECS No.: --

Hydroxyethyl Starch

Weight %: 51-10

CAS No.: 9005-27-0

Hazard symbols: --

R-phrased: --

Index No.: --

EINECS No.: --

Aluminum Sulfate

Weight %: 1-5

CAS No.: 10043-01-3

Hazard symbols: --

R-phrases: --

Index No.: --

EINECS No.: --

Melamine-Formaldehyde resin

Weight %: 1-5

CAS No.: N/A

Hazard symbols: --

R-phrases: --

Index No.: --

EINECS No.: --

3. Hazards Identification

Hazard description:

Heavy white paper sheet with no odor

Dust may cause skin, eye, and respiratory tract irritation

4. First-aid measures

Eye Contact: First check the victim for contact lenses and remove if present. Immediately flush eyes with plenty of water or normal saline for at least 15 minutes while holding eyelids open. If symptoms such as redness or irritation develop or persist, get immediate medical attention. Do not put any medication in the victim's eyes unless instructed by a physician

Skin Contact: Wash skin with soap and flush thoroughly with plenty of water. Obtain medical attention if irritation develops, or other symptoms occur. Wash clothing before reuse.

Ingestion: If large amounts are ingested, intestinal obstruction could result. If ingested, give subject 1-2 glasses of water. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention

Inhalation: Remove exposed subject to fresh air. If not breathing, perform artificial respiration. If breathing is difficult, administer oxygen (by trained personnel only). Get medical attention.

5. Fire-fighting measures

This material is combustible, and may be ignited if heated or exposed to relatively high ambient temperatures.

Dusts at sufficient concentrations can form explosive mixtures with air.

Hazardous Combustion Products: Thermal decomposition may produce toxic or corrosive vapors, including oxides or phosphorous and silicon, phosphoric acid, and hydrides or phosphorous.

Extinguishing Media: Use carbon dioxide, dry chemical, alcohol foam, or waterspray when fighting fires involving this material

Fire Fighting Equipment/Instructions: Treat as paper fire. Keep unnecessary people away; isolate hazard area and deny entry. Emergency equipment including self-contained breathing apparatus (SCBA) and full fire fighting turnout gear should be worn by fire fighters

6. Accidental release measures

Containment Procedures: Avoid generating dust. Use local exhaust ventilation as needed to control dust levels and thereby reduce the risk of fire/explosion.

Clean-Up Procedures: Treat as waste paper. Place paper and dust into a proper waste container. Dust created in converting operations should be vacuumed up with a high efficiency filter vacuum cleaner. Avoid dry sweeping.

Evacuation Procedures: None.

Special Procedures: Dispose of all material in accordance with local, state, and federal regulations

7. Handling and Storage

Handling

Avoid dust contact with eyes and skin. Avoid breathing dusts. Avoid accumulation of airborne dusts. Do not handle near open flames, heat, sparks or other sources of ignition.

Storage

Store in a clean, dry location. Leave protective wrapper in place until paper is put into use. DO NOT store near heat, flames, or other sources of ignition.

8. Exposure controls/personal protection

Exposure guidelines

A. General Product Information: Neither the Occupational Safety and Health Administration (OSHA) nor the American Conference of Governmental Industrial Hygienists (ACGIH) have developed exposure limits for this product. Exposure limits exist for the following ingredients:

A: Component Exposure Limits

Silica, amorphous, precipitated and gel (112926-00-8): ACGIH: 10 mg/m³

Cellulose Pulp (65996-61-4): ACGIH: 10 mg/m³ TWA related to Cellulose); OSHA: 15 mg/m³ TWA (respirable fraction) (related to Cellulose)(Final)

Aluminum Sulfate (10043-01-3): ACGIH: 2 mg/m³ TWA (as Al) (related to Aluminum, soluble salts)

B: Exposure Limits for Chemicals Generated In Use:

Formaldehyde (50-00-0): ACGIH: .0.3 ppm Ceiling; OSHA: 0.75 ppm TWA; 2 ppm STEL; 0.5 Action Level (Irritant and potential cancer hazard - see 29 CFR 1910.1048)

Personal Protection

Eyes/Face: Recommend use of safety glasses with side shields or dust resistant safety goggles.

Skin: Not normally required. Work gloves can protect skin from contact with dusts, paper cuts, mechanical irritation or chapping.

Respiratory: Not normally required. If airborne contaminant levels may exceed recommended exposure limits, NIOSH approved respiratory protection appropriate for employee exposure levels is recommended. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.1 requirements must be followed whenever workplace conditions warrant a respirator's use.

9. Physical and chemical properties

Form:	White paper
Physical State	Solid
Odor:	odorless
PH Value	not available
Melting point:	not available
Boiling point	not applicable
Solubility	Insoluble
Vapor density:	not applicable
Vapor pressure	not applicable

10. Stability and reactivity

Chemical Stability: Product is stable under normal conditions of use

Chemical Stability (Conditions to Avoid): Avoid creating airborne dust; dust at sufficient concentration can form explosive mixtures in air.

Incompatibility: Materials in this product are incompatible with oxidizing agents, alkalis and strong acids.

Hazardous Decomposition: Soluble in fused potassium hydroxide, fused alkalis, and molten iron.

Hazardous Polymerization: Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

11. Toxicological Information

A. General Product Information

This product is a mixture for which no toxicological data exists. When available, toxicological data for the product's hazardous ingredients are provided below for relevant routes of exposure. Refer to Section 3.2 for health effects information

In animals, inhalation exposure to synthetic silica gel for 18 months (15 mg/m³) caused silica deposition in respiratory macrophages and lymph nodes, and minimal lung function impairment. No silicosis was observed.

An ingredient of this product may contain a small amount of bound formaldehyde which may be released during processing and handling. Formaldehyde may be absorbed through the skin. Formaldehyde may cause allergic skin sensitization reactions. Formaldehyde may irritate or burn the skin and eyes. Formaldehyde is a lung sensitizer, causing an asthma-like allergy. Future exposure may cause allergy attacks with shortness of breath, wheezing, cough and chest tightness. Repeated exposure may cause bronchitis.

B. Component Analysis - LD50/LC50

Cellulose pulp (65996-61-4)

12. Ecological information

A. General Product Information: When available, aquatic toxicity information specific to this product is listed below. In the absence of product-specific data, data on similar product mixtures are summarized, or component data is included if available. If information is not provided for a component, no information was found.

B. Component Analysis - Ecotoxicity - Aquatic Toxicity

Aluminum sulfate (10043-01-3)

Tests & Species	Conditions
96 Hr LC50 <i>Carassius auratus</i>	100 mg/L
96 Hr LC50 <i>Gambusia affinis</i>	37 mg/L [static]
15 min EC50 <i>Daphnia magna</i>	136 mg/L

13. Disposal Considerations

US EPA Waste Number & Descriptions

A. General Product Information

Product is not expected to be a characteristic hazardous waste under RCRA.

B. Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of in accordance with local, state, and federal regulations

14. Transport information

US DOT Information

Shipping Name: This product is not regulated by DOT

UN/NA #: Not applicable Hazard Class: Not applicable Packing Group: None

Required Label(s): None Additional Info.: None

International Transportation Regulations:

International Air Transportation Association (IATA): Not regulated

International Maritime Dangerous Goods (IMDG) Code: Not regulated

15. Regulatory information

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4)

Aluminum Sulfate (10043-01-3)

CERCLA: 5000 lb final RQ: 2270 kg final RQ

SARA 311/312:

Immediate: No

Delayed: No

Reactive: No

Pressure: No

Fire: Yes

16. Other Information

Hazard Ratings

[Refer to Section 3 for additional label information, including target organ effects.]

HMIS: NFPA:

HMIS Health: 1

NFPA Health: 1

HMIS Fire: 1

NFPA Fire: 1

HMIS Reactivity: 0

NFPA Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard.

A hazard rating has not been developed by NFPA for this product. The hazard ratings included in this MSDS have been developed based on NFPA and HMIS criteria as well as professional judgement. This information is intended solely for the use of individuals trained in these hazard rating systems.

Label Information

CAUTION!

MAY CAUSE EYE, SKIN, AND RESPIRATORY TRACT IRRITATION.

Avoid contact with eyes and skin.

Wash thoroughly after handling.

Avoid inhalation of dusts.

FIRST AID: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If inhaled, remove to fresh air. Get medical attention if irritation persists.