

MATERIAL SAFETY DATA SHEET

Ashland

Page 001  
Date Prepared: 08/18/04  
Date Printed: 02/18/05  
MSDS No: 303.0376809-001.003

ISOSET ADHESIVE CURED FILM

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: ISOSET ADHESIVE CURED FILM General  
or Generic ID: CURED URETHANE ADHESIVE

Company

Ashland  
Ashland Distribution Co. &  
Ashland Specialty Chemical Co.  
P. O. Box 2219  
Columbus, OH 43216  
614-790-3333

Emergency Telephone Number: 1-800-  
ASBLAND (1-800-274-5263)  
24 hours everyday

Regulatory Information Number:  
1-800-325-3751

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	%(by weight)
CURED URETHANE ADHESIVE		98.0-100.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Dust can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin

Unlikely to cause skin irritation or injury. This material is unlikely to pass into the body through the skin.

Swallowing

Swallowing this material is not likely to be harmful.

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Inhalation

When broken, cut, or scuffed, this material may produce dust. Prolonged or repeated breathing of dust may result in progressive and permanent lung disease (fibrosis) which may cause death from respiratory and/or heart failure. Symptoms include coughing and difficult breathing which become worse with physical activity. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

## Symptom~ of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways).

## Target Organ Effects

No data

## Developmental Information

There are no data available for assessing risk to the fetus from maternal exposure to this material.

## Cancer Information

There is no information available. The chance of this material causing cancer is unknown. This material is not listed as a carcinogen by the International Agency for research on Cancer, the National Toxicology Program, or the occupational Safety and health Administration.

## Other health Effects

Thermal processing of this product can produce fumes and/or vapors, possibly containing ketone carbonyl groups. Components of these releases may vary with processing times and temperatures and therefore specific composition cannot be predicted. These fumes and/or vapors may produce eye; skin and/or respiratory tract irritation. With repeated and prolonged exposure at high concentrations, these fumes and/or vapors could cause central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache).

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Primary Route(s) of Entry

Inhalation. Skin contact, Eye contact.

## 4. FIRST AID MEASURES

## Eyes

If material gets into the eyes. Immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention. If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

## skin

First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

## Swallowing

First aid is not normally required. If symptoms develop, seek medical attention.

## Inhalation

First aid is not normally required. If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention.

## Note to Physicians

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions).

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S. FIRE FIGHTING MEASURES

## Flash Point

No d3ta.

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Explosive Limit  
No data

Auto-ignition Temperature  
No data

Hazardous Products of combustion  
May form: alcohols, aldehydes, amines, carbon dioxide and carbon  
monoxide, nitrogen oxides, organic acids, various hydrocarbons.

Fire and Explosion Hazards  
No special fire hazards are known to be associated with this  
product.

Extinguishing Media  
Regular foam, alcohol foam, water fog, carbon dioxide, dry  
chemical.

Fire Fighting Instructions  
Wear a self-contained breathing apparatus with a full face-piece operated  
in the positive pressure demand mode with appropriate turn-out gear and  
chemical resistant personal protective equipment. Refer to the personal  
protective equipment section of this MSDS.

NFPA Rating  
Health - 1, Flammability - 1, Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Small Spill  
Sweep up material for disposal or recovery.

Large Spill  
Shovel material into containers. Thoroughly sweep area of spill to clean  
up any residual material.

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7. HANDLING AND STORAGE

## Handling

No adverse health effects are anticipated from the product at room temperature. However, at process temperatures, the product can emit fumes and vapors which may cause irritation of the eyes and respiratory tract. Any exposure will depend upon processing technique and temperature, volume processed and the effectiveness of exhaust ventilation provided for the process. Effects of chronic exposure to off-gases at processing temperatures have not been fully evaluated. Mechanical handling equipment can cause formation of dusts. Maintain good housekeeping. Dust layers should not be permitted to accumulate in order to avoid any potential for dust explosion hazards.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Eye Protection

Wear safety glasses in compliance with OSHA regulations. (Consult your safety representative.)

## Skin Protection

Consult your safety products supplier for proper protective equipment to use in thermal processing operations. Not normally required for handling of product. Wear normal work clothing covering arms and legs. Other protective equipment: Consult your safety products supplier for proper protective equipment to use for thermal processing operations.

## Respiratory Protections

If overexposure has been determined or documented, a NIOSa/MSBA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSB/MSBA respirators under specified conditions. (See your safety equipment supplier.) Engineering or administrative controls should be implemented to reduce exposure.

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Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Exposure Guidelines

Component

CURED URETHANE ADHESIVE

No exposure limits established

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

No data

Vapor Pressure

No data

Specific Vapor Density

No data

Specific Gravity

No data

Liquid Density

No data

Percent Volatiles

No data

Evaporation Rate

No data

Appearance

No data

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State  
SOLID

Physical Form  
No data

Color  
No data

Odor  
No data

pH  
No data

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10. STABILITY AND REACTIVITY

Hazardous Polymerization  
Product will not undergo hazardous polymerization.

Hazardous Decomposition  
May form: alcohols, aldehydes, amines, carbon dioxide and carbon monoxide, nitrogen oxides, organic acids, various hydrocarbons-

Chemical Stability  
Stable

Incompatibility  
No data

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11. TOXICOLOGICAL INFORMATION

No data

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12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste management Information

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution Company, IC&S Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

No data

Container/Mode:

No data

NOS component:

None

RQ (Reportable Quantity) - 49 CFR 172.101 Not applicable

Other Transportation Information

The Transport Information may vary with the container and mode of shipment.

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15. REGULATORY INFORMATION

US Federal Regulations

CERCLA RQ - 40 CFR 302.4(a)

None listed

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SARA 302 components - 40 CFR 355 Appendix A  
None

Section 311/312 Hazard Class - 40 CFR 310.2  
Immediate(X) Delayed() Fire() Reactive( Release of Sudden  
Pressure( )

SARA 313 Components - 40 CFR 372\_65  
None

OSHA Process Safety Management 29 CFR 191Q  
None listed

EPA Accidental Release Prevention 40 CFR 68  
None listed

International Regulations  
Inventory Status  
Not determined

State and Local regulations  
California Proposition 65 None

16. OTHER INFORMATION

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\_

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SOURCE:ASHLAND INC WTR, EASYW~R