

MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

Page 001

Date Prepared: 01/26/98

Date Printed: 06/02/98

MSDS No: 308.0291669-002.006

ACT 935

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: ACT 935

General or Generic ID: SOLVENT STRIPPER

Company

Ashland Chemical Co.

P.O. Box 2219

Columbus, OH 43216

614-790-3333

Emergency Telephone Number:

1-800-ASHLAND (1-800-274-5263)

24 hours everyday

Regulatory Information Number:

1-800-325-3751

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
MAJOR COMPONENT	Trade Secret	50.0-100.0
AROMATIC DIOL	Trade Secret	1.0- 7.0

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3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.

Skin

Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage. Passage of this material into the body through the skin is possible, and may add to toxic effects from breathing or swallowing.

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Swallowing

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

Inhalation

Breathing of vapor or mist is possible.

Symptoms of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways), kidney damage, liver damage.

Target Organ Effects

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate pre-existing disorders of these organs in humans: nervous system damage. Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans, and may aggravate pre-existing disorders of these organs: liver abnormalities, kidney damage

Developmental Information

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. The relevance of these findings to humans is uncertain.

Cancer Information

No data

Other Health Effects

No data

Primary Route(s) of Entry

Inhalation, Skin absorption, Skin contact.

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## 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.

### Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

### Swallowing

Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

### Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

### 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), liver, kidney, nervous system.

## 5. FIRE FIGHTING MEASURES

Flash Point

239.0

- 248.0

F (115.0

- 120.0

C) COC

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Explosive Limit  
(for product) Lower 5.5 %

Autoignition Temperature  
No data

Hazardous Products of Combustion  
May form: carbon dioxide and carbon monoxide, nitrogen oxides.

Fire and Explosion Hazards  
Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

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

Fire Fighting Instructions  
Wear a self-contained breathing apparatus with a full facepiece 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 - 3, Flammability - 1, Reactivity - 0

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6. ACCIDENTAL RELEASE MEASURES

Small Spill  
Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to hood. Paper towels or cloths used to clean up small spills should be thoroughly soaked with water before discarding to avoid possible autoignition. Boxes or containers of this product that may become contaminated as a result of possible leakage should be similarly disposed of.

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### Large Spill

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

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## 7. HANDLING AND STORAGE

### Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five-gallon pails and larger metal containers, including tank cars and tank trucks, should be grounded and/or bonded when material is transferred.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Eye Protection

Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist.)

### Skin Protection

Wear resistant gloves such as: butyl rubber, To prevent skin contact, wear impervious clothing and boots., Other protective equipment: eyewash station, emergency shower..

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## Respiratory Protections

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

## Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

## Exposure Guidelines

Component

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### MAJOR COMPONENT

OSHA VPEL 3.000 ppm - TWA

OSHA VPEL 5.000 ppm - STEL

ACGIH TLV 3.000 ppm - TWA

ACGIH TLV 5.000 ppm - STEL

### AROMATIC DIOL

OSHA VPEL 5.000 ppm - TWA (Skin)

ACGIH TLV 5.000 ppm - TWA (Skin)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Boiling Point

(for product) 257.0 F (125.0 C) @ 760 mmHg

### Vapor Pressure

(for product) < 1.000 mmHg @ 68.00 F

### Specific Vapor Density

2.000 @ AIR=1

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Specific Gravity  
1.040 @ 77.00 F

Liquid Density  
8.680 lbs/gal @ 77.00 F  
1.040 kg/l @ 25.00 C

Percent Volatiles  
> 60.0 %

Evaporation Rate  
SLOWER THAN ETHYL ETHER

Appearance  
No data

State  
LIQUID

Physical Form  
No data

Color  
AMBER

Odor  
AMINE LIKE

pH  
11.0

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10. STABILITY AND REACTIVITY

Hazardous Polymerization  
Product will not undergo hazardous polymerization.

Hazardous Decomposition  
May form: ammonia, carbon dioxide and carbon monoxide, nitrogen oxides.

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Chemical Stability  
Stable.

Incompatibility

Avoid contact with: acrylates, brass, copper, halogenated hydrocarbons, ketones, organic anhydrides, strong acids, strong alkalis, strong oxidizing agents.

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11. TOXICOLOGICAL INFORMATION

No data

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12. ECOLOGICAL INFORMATION

No data

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13. DISPOSAL CONSIDERATION

Waste Management Information

Destroy by incineration in accordance with applicable regulations.

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14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

ETHANOLAMINE SOLUTIONS, 8, UN2491, III

Container/Mode:

55 GAL DRUM/TRUCK PACKAGE

NOS Component:

None

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RQ (Reportable Quantity) - 49 CFR 172.101  
Product Quantity (lbs) Component

2000	CATECHOL
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## 15. REGULATORY INFORMATION

### US Federal Regulations

TSCA (Toxic Substances Control Act) Status  
TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)

Component

RQ (lbs)

CATECHOL

1

CERCLA RQ - 40 CFR 302.4(b)

Materials without a "listed" RQ may be reportable as an "unlisted hazardous substance". See 40 CFR 302.5 (b).

SARA 302 Components - 40 CFR 355 Appendix A  
None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate(X) Delayed(X) Fire(X) Reactive( ) Sudden Release of Pressure( )

SARA 313 Components - 40 CFR 372.65

Section 313 Component(s)

CAS Number

%

CATECHOL

120-80-9

5.00

### International Regulations

Inventory Status

Not determined

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State and Local Regulations  
California Proposition 65  
None

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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 EASYWTR