

## MATERIAL SAFETY DATA SHEET

**ACCU-WAY 3978**Version Number 1.0  
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Print Date 10/7/2002**1. PRODUCT AND COMPANY IDENTIFICATION****POLYONE CORPORATION**  
14330 Kinsman Road, Burton, OH 44021

NON-EMERGENCY TELEPHONE : Product Stewardship (440)-834-4644

Emergency telephone number : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : ACCU-WAY 3978

Product code : AD300002900C

Chemical Name : Mixture

CAS-No. : Mixture

Product Use : Industrial Applications

**2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS**

Components	CAS-No.	Weight %
2-Mercaptobenzothiazole	149-30-4	10 - 30
Ziram	137-30-4	10 - 30
Tetramethyl thiuram disulfide (Thiram)	137-26-8	10 - 30
Tetrakis(diethyldithiocarbamate-S,S')tellurium	20941-65-5	10 - 30

**3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. In addition, heating or processing this material may result in product degradation or byproduct formation creating additional hazards. See Sections 8 and 11 for additional details.

**POTENTIAL HEALTH EFFECTS**

Routes of Exposure: : Inhalation, Skin contact, Ingestion

**Acute exposure**

Inhalation : Irritating to respiratory system.

Ingestion : May be harmful if swallowed.

Eyes : Particulates, like other inert materials can be mechanically irritating.

Skin : Experience shows no unusual dermatitis hazard from routine handling.

Chronic exposure : Refer to Section 11 for Toxicological Information.

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Print Date 10/7/2002**Medical Conditions** : None known.  
**Aggravated by Exposure:****4. FIRST AID MEASURES**

**Inhalation** : Move to fresh air. When symptoms persist, or in all cases of doubt, seek medical advice.

**Ingestion** : Do not induce vomiting without medical advice. Seek medical attention if necessary.

**Eyes** : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, seek medical attention.

**Skin** : Wash off with soap and plenty of water.

**5. FIRE-FIGHTING MEASURES**

**Flash point** : Not applicable

**Flammable Limits**

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Autoignition temperature : No data available.

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide..

**Special Fire Fighting Procedures** : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.

**Unusual Fire/Explosion Hazards** : None

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions** : Avoid breathing dust. Avoid dust formation. Ensure adequate ventilation. Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.

**Environmental precautions** : Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.

**Methods for cleaning up** : Clean up promptly by sweeping or vacuum. Do not create a powder cloud by using a brush or compressed air. Shovel into suitable container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

**7. HANDLING AND STORAGE**

**Handling** : Provide for appropriate exhaust ventilation and dust collection at



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Melting point/range	: Not applicable	Vapor density	: Not applicable
Boiling Point:	: Not applicable.	pH	: Not applicable
Water solubility	: Negligible		

**10. STABILITY AND REACTIVITY**

Stability	: Stable.
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: Heat, flames and sparks.
Incompatible Materials	: strong acids and oxidizing agents
Hazardous decomposition products	: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), other hazardous materials, and smoke are all possible.

**11. TOXICOLOGICAL INFORMATION**

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
149-30-4	2-Mercaptobenzothiazole	toxic	Refer to LC50 / LD50 Data on MSDS..
137-30-4	Ziram	Systemic effects	Liver, Kidney, reproductive system.
		toxic	Refer to LC50 / LD50 Data on MSDS..
137-26-8	Tetramethyl thiuram disulfide (Thiram)	Irritant	Eyes, Skin, Respiratory system.
		sensitizer	Eyes, Skin, Respiratory system.
		Systemic effects	Liver, Kidney, central nervous system.
		toxic	Refer to LC50 / LD50 Data on MSDS..
20941-65-5	Tetrakis(diethylthiocarbamate-S,S')tellurium	Irritant	Eyes, Skin.

**LC50 / LD50**

This product contains the following components which in their pure form have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
149-30-4	2-Mercaptobenzothiazole	LC50	> 1270 mg/m <sup>3</sup>	rat
		Oral LD50	100 mg/kg	rat
		Dermal LD50	> 7,940 mg/kg	rabbit

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137-30-4	Ziram	LC50 Oral LD50 Dermal LD50	81 mg/m3 267 mg/kg > 2 gm/kg	rat rat rabbit
137-26-8	Tetramethyl thiuram disulfide (Thiram)	LC50 Oral LD50	500 mg/m3 210 mg/kg	rat rabbit

**Additional Health Hazard Information:**

**Ziram 137-30-4** Highly toxic, irritant and a skin sensitizer. This material if ingested may cause an Antabuse response when alcohol is ingested. This Antabuse effect includes nausea, vomiting, abdominal cramps and/or flushing.

**12. ECOLOGICAL INFORMATION**

Persistence and degradability : No data available.  
Environmental Toxicity : No data available.  
Bioaccumulation Potential : No data available.  
Additional advice : No data available.

**13. DISPOSAL CONSIDERATIONS**

Product : Where possible, recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.  
Contaminated packaging : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

**14. TRANSPORT INFORMATION**

U.S. DOT Classification : Refer to specific regulation.  
ICAO/IATA : Refer to specific regulation.  
IMO / IMDG : Refer to specific regulation.

**15. REGULATORY INFORMATION**

US Regulations:

OSHA Status : Classified as hazardous based on components.  
TSCA Status : All components of this product are listed on the TSCA inventory or are exempt.

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US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	% in Product	RQ for component	RQ for Mixture/Product
Ziram	137-30-4	15.3800	001 lbs	7 LB

California Proposition 65 : This product does not contain a substance listed by California Prop 65.

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
2-MERCAPTOBENZOTHAZOLE (MBT)	149-30-4	19.03
THIRAM	137-26-8	19.03
COPPER COMPOUNDS	137-29-1	15.07
ZINC COMPOUNDS	137-30-4	15.38

Canadian Regulations:

WHMIS Classification : D1B

WHMIS Ingredient Disclosure List

CAS-No.
137-26-8
137-29-1
137-30-4
20941-65-5

DSL : Listed.

National Inventories:

Australia AICS : Listed.

China IECS : Not determined.

Europe EINECS : Listed.

Japan ENCS : Not determined.

Korea KECI : Listed.

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Philippines PICCS : Not determined.

**16. OTHER INFORMATION**

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.