

REDIMIX 9885 CUREBLEND

Version Number 1.0
Revision Date 02/07/2003

Page 1 of 7
Print Date 10/9/2003

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 : REDIMIX 9885 CUREBLEND
Product code : AD3000057460
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Di-2-benzothiazolyl disulfide	120-78-5	5 - 10
2-Mercaptobenzothiazole	149-30-4	10 - 30
Petroleum distillates, hydrotreated light naphthenic	64742-53-6	1 - 5
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	5 - 10
Tetramethyl thiuram disulfide (Thiram)	137-26-8	10 - 30
Zinc oxide	1314-13-2	30 - 60

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.

MARKETED BY
HARWICK STANDARD
DISTRIBUTION CORPORATION
60 S. Selberling Street • Akron, Ohio 44305

MATERIAL SAFETY DATA SHEET

REDIMIX 9885 CUREBLENDVersion Number 1.0
Revision Date 02/07/2003Page 2 of 7
Print Date 10/9/2003**Chronic exposure** : Refer to Section 11 for Toxicological Information.**Medical Conditions
Aggravated by Exposure:** : None known.**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.

REDIMIX 9885 CUREBLEND

Version Number 1.0
Revision Date 02/07/2003

Page 3 of 7
Print Date 10/9/2003

7. HANDLING AND STORAGE

- Handling : Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid formation of dust and aerosols.
- Storage : Store in a cool dry place. Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Employees using respirators must be properly trained. Employers must follow applicable regulations such as OSHA 29 CFR 1910.134.
- Eye/Face Protection : Safety glasses with side-shields.
- Hand protection : Protective gloves.
- Skin and body protection : Long sleeved clothing.
- Additional Protective Measures : Safety shoes
- General Hygiene Considerations : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.
- Engineering measures : Adequate ventilation and/or appropriate respiratory protection may also be necessary to minimize employee exposure to processing vapors.

Exposure limit(s)

MATERIAL SAFETY DATA SHEET

REDIMIX 9885 CUREBLEND

Version Number 1.0
Revision Date 02/07/2003

Page 4 of 7
Print Date 10/9/2003

Components	Value	Exposure time	Exposure type	List:
Petroleum distillates, hydrotreated heavy naphthenic	500 ppm 2,000 mg/m3	PEL:	Vapor.	OSHA Z1
Petroleum distillates, hydrotreated light naphthenic	500 ppm 2,000 mg/m3	PEL:	Vapor.	OSHA Z1
Zinc oxide	10 mg/m3	Time Weighted Average (TWA):	Total dust. as Zn	ACGIH
	5 mg/m3	PEL:	Respirable dust. as Zn	OSHA Z1
	15 mg/m3	PEL:	Total dust. as Zn	OSHA Z1
Zinc oxide	5 mg/m3	Time Weighted Average (TWA):	Fume.	MX OEL
	10 mg/m3	Time Weighted Average (TWA):	Dust.	MX OEL
	10 mg/m3	Short Term Exposure Limit (STEL):	Fume.	MX OEL
Tetramethyl thiuram disulfide (Thiram)	1 mg/m3	Time Weighted Average (TWA):	Total dust.	ACGIH
Tetramethyl thiuram disulfide (Thiram)	5 mg/m3	PEL:	Total dust.	OSHA Z1

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Solid	Evaporation rate	: Not applicable.
Appearance	: powder, Crumb, Pellets	Specific Gravity	: Not determined
Color	: NO PIGMENT	Bulk density	: Not determined
Odor	: Very faint	Vapor pressure	: Not applicable.
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 ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), 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.

MATERIAL SAFETY DATA SHEET

REDIMIX 9885 CUREBLEND

Version Number 1.0
Revision Date 02/07/2003

Page 5 of 7
Print Date 10/9/2003

Toxicity Overview

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

CAS-No.	Chemical Name	Effect	Target Organ
120-78-5	Di-2-benzothiazolyl disulfide	Systemic effects	reproductive system.
149-30-4	2-Mercaptobenzothiazole	toxic	Refer to LC50 / LD50 Data on MSDS..
64742-53-6	Petroleum distillates, hydrotreated light naphthenic	Irritant	Eyes, Skin.
64742-52-5	Petroleum distillates, hydrotreated heavy naphthenic	Irritant	Eyes, Skin.
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..
1314-13-2	Zinc oxide	Systemic effects	Respiratory system.

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
120-78-5	Di-2-benzothiazolyl disulfide	Oral LD50 Dermal LD50	> 12 gm/kg > 7,940 mg/kg	rat rabbit
149-30-4	2-Mercaptobenzothiazole	LC50 Oral LD50 Dermal LD50	> 1270 mg/m3 100 mg/kg > 7,940 mg/kg	rat rat rabbit
137-26-8	Tetramethyl thiuram disulfide (Thiram)	LC50 Oral LD50	500 mg/m3 210 mg/kg	rat rabbit
1314-13-2	Zinc oxide	LC50 Oral LD50	2500 mg/m3 7,950 mg/kg	mouse mouse

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

MATERIAL SAFETY DATA SHEET

REDIMIX 9885 CUREBLEND

Version Number 1.0
Revision Date 02/07/2003

Page 6 of 7
Print Date 10/9/2003

- 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 or exempt from the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	% in Product	RQ for component	RQ for Mixture/Product
Tetramethyl thiuram disulfide (Thiram)	137-26-8	11.8404	010 lbs	84 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	11.72

MATERIAL SAFETY DATA SHEET

REDIMIX 9885 CUREBLENDVersion Number 1.0
Revision Date 02/07/2003Page 7 of 7
Print Date 10/9/2003

Chemical Name	CAS-No.	Weight %
ZINC COMPOUNDS	1314-13-2	39.86
THIRAM	137-26-8	11.84

Canadian Regulations:

WHMIS Classification : D1B

WHMIS Ingredient Disclosure List

CAS-No.
1314-13-2
120-78-5
137-26-8

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS : Listed.

China IECS : Listed.

Europe EINECS : Listed.

Japan ENCS : Not determined.

Korea KECI : Listed.

Philippines PICCS : Listed.

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.