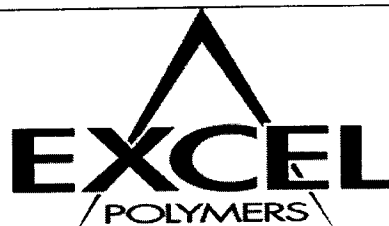


EXCEL POLYMERS LLC

MATERIAL SAFETY DATA SHEET



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1. PRODUCT AND COMPANY IDENTIFICATION

EXCEL POLYMERS LLC
14330 Kinsman Road, Burton, OH 44021

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 9821
Product code : AD00001805
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Formaldehyde	50-00-0	0.1 - 1
Cresol	1319-77-3	1 - 5
Phenol	108-95-2	5 - 10

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

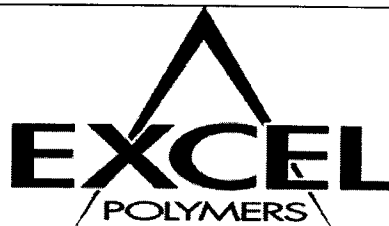
Routes of Exposure: : Inhalation, Skin contact, Ingestion

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.

Medical Conditions : None known.
Aggravated by Exposure:



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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 : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), other hazardous materials, and smoke are all possible.

6. ACCIDENTAL RELEASE MEASURES

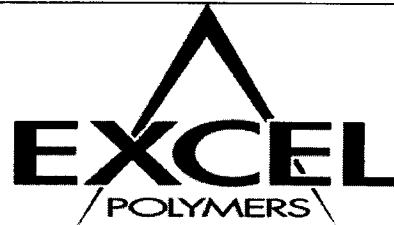
- Personal precautions : Avoid breathing dust. Avoid dust formation. Ensure adequate ventilation. Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
- Environmental precautions : Should not be released into the environment. The product should not be allowed 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 machinery. Avoid formation of dust and aerosols.

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Storage : Store in a cool dry place. Keep away from open flames, hot surfaces and sources of ignition.

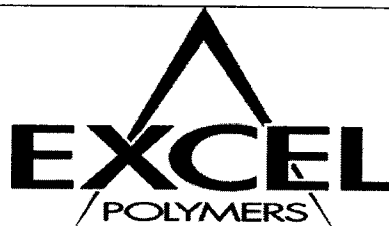
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 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. Refer to equipment supplier to ensure protection.
- 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)

Components	Value	Exposure time	Exposure type	List:
Formaldehyde	0.3 ppm	Ceiling Limit Value:		ACGIH
	0.75 ppm	Time Weighted Average (TWA):		OSHA
	2 ppm	Short Term Exposure Limit (STEL):		OSHA
	0.5 ppm	OSHA Action level:		OSHA
Phenol	5 ppm 19 mg/m3	Time Weighted Average (TWA):	Total	ACGIH
	5 ppm 19 mg/m3	PEL:	Total	OSHA Z1
Cresol	5 ppm	Time Weighted Average (TWA):	Vapor.	ACGIH
	5 ppm 22 mg/m3	PEL:	Vapor.	OSHA Z1

9. PHYSICAL AND CHEMICAL PROPERTIES

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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	Vapour 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 (CO₂), 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.

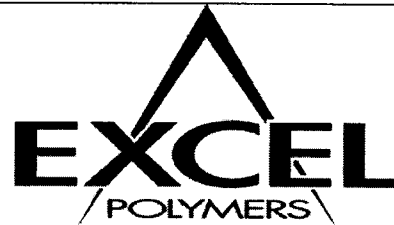
Toxicity Overview

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

CAS-No.	Chemical Name	Effect	Target Organ
50-00-0	Formaldehyde	Highly Toxic	Refer to LC50 / LD50 Data on MSDS..
		Corrosive	Eyes, Skin.
		sensitizer	Skin, Respiratory system.
		Systemic effects	Eyes, Kidney, Liver, heart or circulatory system.
1319-77-3	Cresol	Systemic effects	Liver, Kidney, central nervous system (CNS), heart or circulatory system, blood and blood forming system.
		Corrosive	Eyes, Skin, Respiratory system.
		toxic	Refer to LC50 / LD50 Data on MSDS..
108-95-2	Phenol	toxic	Refer to LC50 / LD50 Data on MSDS..
		Systemic effects	Kidney, central nervous system (CNS), Liver, Respiratory system.

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		Corrosive	Eyes, Skin.
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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
50-00-0	Formaldehyde	LC50	203 mg/m3	rat
		Oral LD50	42 mg/kg	mouse
		Dermal LD50	270 ul/kg	rabbit
1319-77-3	Cresol	LC50	955 mg/m3	rat
		Oral LD50	167 mg/kg	rat
		Dermal LD50	651 mg/kg	rabbit
108-95-2	Phenol	LC50	316 mg/m3	rat
		Oral LD50	270 mg/kg	mouse
		Dermal LD50	630 mg/kg	rabbit

Carcinogenicity

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
50-00-0	Formaldehyde	yes	2A	no

IARC Carcinogen Classifications:

- 1 - The component is carcinogenic to humans.
- 2A - The component is probably carcinogenic to humans.
- 2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

- 1 - The component is known to be a human carcinogen.
- 2 - The component is reasonably anticipated to be a human carcinogen.

Additional Health Hazard Information:

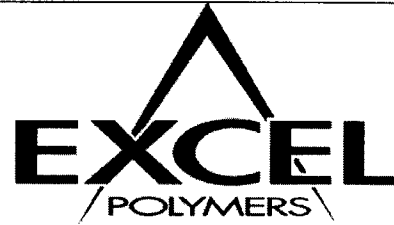
Formaldehyde 50-00-0 Formaldehyde is extremely irritating to the eyes and respiratory tract. Symptoms include burning of the nose and throat, tearing, cough, chest tightness, and difficulty in breathing. Repeated skin contact with Formaldehyde can cause numbness and an allergic response. Symptoms include dryness, redness, swelling, severe burning, itching and blisters. Formaldehyde is listed as a substance that reasonably be anticipated to be carcinogenic to humans by the National Toxicology Program (NTP). It is classified as carcinogenic to humans by the International Agency for Research in cancer (IARC Monographs, Vol. 29) and is regulated by OSHA as a carcinogen (29 CFR 1910.1048).

12. ECOLOGICAL INFORMATION

Persistence and degradability	: No data available
Environmental Toxicity	: No data available
Bioaccumulation Potential	: No data available

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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 (air) : Refer to specific regulation.

IMO / IMDG (maritime) : 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.

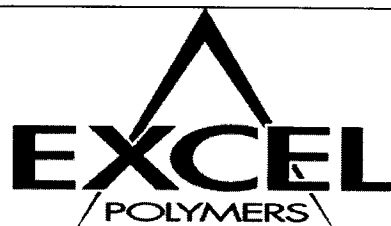
US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	% in Product	RQ for component	RQ for Mixture/Product
Zinc borate	1332-07-6	40.0000	1,000 lbs	2,500 LB

California Proposition 65 : WARNING! This product contains a chemical known to the State of California to cause cancer.

SARA Title III Section 302 Extremely Hazardous Substance

Chemical Name	CAS-No.	% in Product	RQ for component
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Formaldehyde	50-00-0	0.60	100 lbs
Phenol	108-95-2	7.20	1,000 lbs

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
ZINC COMPOUNDS	1332-07-6	40.00
FORMALDEHYDE	50-00-0	0.60
PHENOL	108-95-2	7.20
CRESOL (MIXED ISOMERS)	1319-77-3	2.40

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
Zinc borate	1332-07-6	40.00	241
Formaldehyde	50-00-0	0.60	118
Phenol	108-95-2	7.20	194
Cresol	1319-77-3	2.40	71

WHMIS Classification : D1A

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 : Not determined

Japan ENCS : Not determined

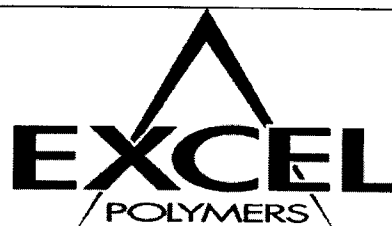
Korea KECI : Not determined

Philippines PICCS : Listed

16. OTHER INFORMATION

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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 when used in combination with any other materials and/or in any particular process or processing conditions.