



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

89000GNS GENESIS MICA GOLD

Version Number 1.0
Revision Date 04/29/2004

Page 1 of 7
Print Date 11/11/2005

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION
8155 Cobb Center Drive, Kennesaw, GA 30152

Telephone : Product Stewardship (770) 590-3500 x.3563
Emergency telephone number : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Product name : 89000GNS GENESIS MICA GOLD
Product code : FO20008182Z5
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
1,2-Benzenedicarboxylic acid, butyl phenylmethylester	85-68-7	5 - 10
Copper	7440-50-8	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. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: : Inhalation, Skin contact, Ingestion

Acute exposure

Inhalation : Inhalation of airborne droplets may cause irritation of the respiratory tract.
Ingestion : May be harmful if swallowed.
Eyes : May cause eye/skin irritation.
Skin : Experience shows no unusual dermatitis hazard from routine handling.

Chronic exposure : Refer to Section 11 for Toxicological Information.



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

89000GNS GENESIS MICA GOLD

Version Number 1.0
Revision Date 04/29/2004

Page 2 of 7
Print Date 11/11/2005

Medical Conditions : None known.
Aggravated by Exposure:

4. FIRST AID MEASURES

Inhalation : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.

Ingestion : Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.

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. If skin irritation persists seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash point : No data available

Flammable Limits
Upper explosion limit : No data available
Lower explosion limit : No data available

Autoignition temperature : Not applicable

Suitable extinguishing media : Carbon dioxide blanket, water spray, dry powder, foamnone.

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 : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions. 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 : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Package all material in appropriate container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

7. HANDLING AND STORAGE

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

89000GNS GENESIS MICA GOLD

Version Number 1.0
Revision Date 04/29/2004

Page 3 of 7
Print Date 11/11/2005

Handling : Heat only in areas with appropriate exhaust ventilation. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials.

Storage : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in a cool dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection : No personal respiratory protective equipment normally required.

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 at the end of workday.

Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.

Exposure limit(s)

Components	Value	Exposure time	Exposure type	List:
Copper	1 mg/m3	PEL:	Dust and mist. as Cu	OSHA Z1
	0.2 mg/m3	Time Weighted Average (TWA):	Fume. as Cu	ACGIH
	1 mg/m3	Time Weighted Average (TWA):	Dust and mist. as Cu	ACGIH

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Appearance : Viscous, liquid

Color : YELLOW

Odor : Very faint

Melting point/range : Not applicable

Boiling Point: : Not applicable

Water solubility : Immiscible

Evaporation rate : Not established

Specific Gravity: : Not determined

Bulk density : Not applicable

Vapor pressure : Not determined

Vapour density : Not determined

pH : Not applicable

10. STABILITY AND REACTIVITY

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

89000GNS GENESIS MICA GOLD

Version Number 1.0
Revision Date 04/29/2004

Page 4 of 7
Print Date 11/11/2005

- Stability : Stable.
- Hazardous Polymerization : Will not occur.
- Conditions to avoid : Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
- Incompatible Materials : Incompatible with strong acids and oxidizing agents., Avoid contact with acetal homopolymers and acetal copolymers during processing.
- Hazardous decomposition products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), hydrogen chloride (HCl), other hazardous materials, and smoke are all possible. Prolonged heating may result in product degradation. As a general rule of thumb, degradation begins to occur after one hour at 177 °C (350 °F), after 10 minutes at 204 °C (400 °F), and within 5 minutes at 232 °C (450 °F).

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
85-68-7	1,2-Benzenedicarboxylic acid, butyl phenylmethylester	Irritant	Eyes, Skin.
		Systemic effects	Liver, reproductive system.
7440-50-8	Copper	Irritant	Respiratory system.
		Systemic effects	Eyes, Skin, Respiratory system, Liver, Kidney.

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
85-68-7	1,2-Benzenedicarboxylic acid, butyl phenylmethylester	Oral LD50 Dermal LD50	2,330 mg/kg > 10 gm/kg	rat rabbit

12. ECOLOGICAL INFORMATION

- Persistence and degradability : Not readily biodegradable.
- Environmental Toxicity : Environmental toxicity has not been established for this mixture as a whole.
- Bioaccumulation Potential : No data available



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

89000GNS GENESIS MICA GOLD

Version Number 1.0
Revision Date 04/29/2004

Page 5 of 7
Print Date 11/11/2005

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
1,2-Benzenedicarboxylic acid, butyl phenylmethylester	85-68-7	5.8495	100 lbs	1,710 LB

California Proposition 65 : WARNING! This product contains a chemical known to the State of California to cause cancer., WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

89000GNS GENESIS MICA GOLD

Version Number 1.0
Revision Date 04/29/2004

Page 6 of 7
Print Date 11/11/2005

SARA Title III Section 302 Extremely Hazardous Substance

Not applicable

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
COPPER	7440-50-8	14.20
ZINC (FUME OR DUST)	7440-66-6	1.64

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
1-Methyl-2-pyrrolidone	872-50-4	0.42	164
Copper	7440-50-8	14.20	70
Zinc	7440-66-6	1.64	241
1,2-Benzenedicarboxylic acid, butyl phenylmethylester	85-68-7	5.84	37

WHMIS Classification : D2B

WHMIS Ingredient Disclosure List

CAS-No.
7440-50-8
85-68-7

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



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

89000GNS GENESIS MICA GOLD

Version Number 1.0
Revision Date 04/29/2004

Page 7 of 7
Print Date 11/11/2005

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.