

HEXPOL Compounding

MATERIAL SAFETY DATA SHEET

MASTERMIX ANTIMONY OXIDE L 201 PASTE

Version Number 1.2
Revision Date 01/27/2015

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1. PRODUCT AND COMPANY IDENTIFICATION

HEXPOL Compounding
14330 Kinsman Road, Burton, OH 44021

Telephone : Product Stewardship (440) 834-4644
Emergency telephone : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Product name : MASTERMIX ANTIMONY OXIDE L 201 PASTE
Product code : AD00000967PP
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

| Components | CAS-No. | Weight percent |
|-------------------|-----------|----------------|
| Arsenic | 7440-38-2 | 0.1 - 1 |
| Lead | 7439-92-1 | 1 - 5 |
| Antimony trioxide | 1309-64-4 | 60 - 100 |

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

Chronic exposure : Refer to Section 11 for Toxicological Information.

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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. 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. 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, Foam.

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 : 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

Handling : Heat only in areas with appropriate exhaust ventilation. Prolonged

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heating may result in product degradation.

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 : Under normal handling conditions a respirator may not be 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)

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| Components | Value | Exposure time | Exposure type | List: |
|-------------------|-------------------------|---|----------------------|----------|
| Antimony trioxide | 0.5 mg/m ³ | Time Weighted Average (TWA): | as Sb | MX OEL |
| | 0.5 mg/m ³ | Time Weighted Average (TWA): | as Sb | ACGIH |
| | 0.5 mg/m ³ | Recommended exposure limit (REL): | as Sb | NIOSH |
| | 0.5 mg/m ³ | PEL: | as Sb | OSHA Z1 |
| | 0.5 mg/m ³ | Time Weighted Average (TWA): | as Sb | OSHA Z1A |
| Arsenic | 0.01 mg/m ³ | Time Weighted Average (TWA): | as As | ACGIH |
| | 0.002 mg/m ³ | Ceiling Limit Value and Time Period (if specified): | as As | NIOSH |
| | 0.01 mg/m ³ | Time Weighted Average (TWA): | | OSHA |
| | 0.005 mg/m ³ | OSHA Action level: | | OSHA |
| | 0.01 mg/m ³ | Time Weighted Average (TWA): | as As | OSHA Z1A |
| Lead | 0.05 mg/m ³ | Time Weighted Average (TWA): | as Pb | ACGIH |
| | 0.050 mg/m ³ | Recommended exposure limit (REL): | as Pb | NIOSH |
| | 0.05 mg/m ³ | Time Weighted Average (TWA): | | OSHA |
| | 0.03 mg/m ³ | OSHA Action level: | | OSHA |
| | 0.05 mg/m ³ | Time Weighted Average (TWA): | as Pb | OSHA Z1A |
| | 0.15 mg/m ³ | Time Weighted Average (TWA): | Dust and fume. as Pb | MX OEL |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---------------------|-------------------------------------|------------------|---------------------|
| Form | : liquid | Evaporation rate | : Not established |
| Appearance | : liquid, Viscous liquid dispersion | Specific Gravity | : Not determined |
| Color | : NO PIGMENT | Bulk density | : Not applicable |
| Odour | : Very faint | Vapour pressure | : Not determined |
| Melting point/range | : not applicable | Vapour density | : Heavier than air. |
| Boiling Point: | : not applicable | pH | : Not determined |
| Water solubility | : Immiscible | | |

10. STABILITY AND REACTIVITY

| | |
|--------------------------|-------------------|
| Stability | : Stable. |
| Hazardous Polymerization | : Will not occur. |

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- 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.
- 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 |
|-----------|-------------------|--------------------------------|--|
| 7440-38-2 | Arsenic | Systemic effects | Skin, Respiratory system, Liver, Kidney, heart or circulatory system. |
| 7439-92-1 | Lead | Systemic effects | blood and blood forming system, Kidney, central nervous system (CNS), reproductive system, digestive system. |
| 1309-64-4 | Antimony trioxide | Systemic effects sensitizer | Eyes, Respiratory system. 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 |
|-----------|-------------------|--------------------------|------------------------|---------|
| 7440-38-2 | Arsenic | Oral LD50Oral LD50 | 763 mg/kg 763 mg/kg | rat |
| 1309-64-4 | Antimony trioxide | Oral LD50 | > 34,600 mg/kg | rat |

Carcinogenicity

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

| CAS-No. | Chemical Name | OSHA | IARC | NTP |
|-----------|-------------------|------|------|-----|
| 7440-38-2 | Arsenic | yes | 1 | no |
| 7439-92-1 | Lead | yes | 2B | no |
| 1309-64-4 | Antimony trioxide | no | 2B | no |

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

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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:

Arsenic 7440-38-2 Trivalent compounds are corrosive to skin. Acute effects are due to severe inflammation of mucous membrane while chronic effects include peripheral neuritis, perforation for the nasal septum and mild tracheobronchitis.

Additional Health Hazard Information:

Lead 7439-92-1 Systemic effects include neurotoxic, teratogenic, fetotoxic and reproductive with abdominal pain, anemia, pallor, decreased hand grip strength with characteristic "wrist drop".

Additional Health Hazard Information:

Antimony trioxide 1309-64-4 Can cause eye irritation. Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Additional symptoms of skin contact may include: antimony measles (a red, pimply rash).

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
- 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.

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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. | RQ for component | RQ for Mixture/Product |
|---------------|-----------|------------------|------------------------|
| Arsenic | 7440-38-2 | 001 lbs | 290 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.

SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

| Chemical Name | CAS-No. | Weight percent |
|--------------------|-----------|----------------|
| ANTIMONY COMPOUNDS | 1309-64-4 | 0.00 - 0.00 |
| ARSENIC | 7440-38-2 | 0.00 - 0.00 |
| LEAD | 7439-92-1 | 0.00 - 0.00 |

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

| Chemical Name | CAS-No. | Weight percent | NPRI ID# |
|-------------------|-----------|----------------|----------|
| Antimony trioxide | 1309-64-4 | 60.00 - 100.00 | |
| Arsenic | 7440-38-2 | 0.10 - 1.00 | |
| Lead | 7439-92-1 | 0.10 - 1.00 | |

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WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

| CAS-No. |
|-----------|
| 1309-64-4 |
| 7440-38-2 |
| 7439-92-1 |

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.