



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

67750PSC BT-HENDEE CHESTNUT BROWN

Version Number 1.1
Revision Date 08/04/2003

Page 1 of 8
Print Date 11/11/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION
2700 Papin Street, St. Louis, MO 63103

NON-EMERGENCY TELEPHONE : Product Stewardship, (314) 771-1800
Emergency telephone number : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : 67750PSC BT-HENDEE CHESTNUT BROWN
Product code : FO00001856
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Azodicarbonamide	123-77-3	1 - 5
Bisphenol A - Epichlorohydrin polymer	25068-38-6	1 - 5
Carbon black	1333-86-4	0.1 - 1
Aluminum oxide	1344-28-1	1 - 5
1,2,4-Trimethylbenzene	95-63-6	1 - 5
Antimony trioxide	1309-64-4	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. 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.

POLYONE CORPORATION**MATERIAL SAFETY DATA SHEET****67750PSC BT-HENDEE CHESTNUT BROWN**

Version Number 1.1

Revision Date 08/04/2003

Page 2 of 8

Print Date 11/11/2011

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

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 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, dry powder, foam, water spray.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : 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 : 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

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

67750PSC BT-HENDEE CHESTNUT BROWN

Version Number 1.1
Revision Date 08/04/2003

Page 3 of 8
Print Date 11/11/2011

disposal methods.

7. HANDLING AND STORAGE

- 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 : 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)

Components	Value	Exposure time	Exposure type	List:
Aluminum oxide	10 mg/m3	Time Weighted Average (TWA):	Total dust.	ACGIH
Aluminum oxide	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
Antimony trioxide	0.5 mg/m3	PEL:	as Sb	OSHA Z1
Antimony trioxide	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	ACGIH
Carbon black	3.5 mg/m3	Time Weighted Average (TWA):	Total dust. as carbon black	ACGIH
Carbon black	3.5 mg/m3	PEL:	Total dust. as carbon black	OSHA Z1
1,2,4-Trimethylbenzene	25 ppm 123 mg/m3	Time Weighted Average (TWA):	Vapor.	ACGIH

9. PHYSICAL AND CHEMICAL PROPERTIES

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

67750PSC BT-HENDEE CHESTNUT BROWN

Version Number 1.1
Revision Date 08/04/2003

Page 4 of 8
Print Date 11/11/2011

Form	: Liquid	Evaporation rate	: Not established
Appearance	: Viscous, Liquid	Specific Gravity	: Not determined
Color	: BROWN	Bulk density	: Not applicable.
Odor	: Very faint	Vapor pressure	: Not determined
Melting point/range	: Not applicable	Vapor density	: Not determined
Boiling Point:	: Not applicable	pH	: Not applicable.
Water solubility	: Immiscible		

10. STABILITY AND REACTIVITY

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 (CO ₂), 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
123-77-3	Azodicarbonamide	sensitizer	Respiratory system.
25068-38-6	Bisphenol A - Epichlorohydrin polymer	Irritant	Skin.
		sensitizer	Skin.
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system.
1344-28-1	Aluminum oxide	Systemic effects	Eyes, Skin, Respiratory system.
95-63-6	1,2,4-Trimethylbenzene	Systemic effects	central nervous system.
		Irritant	Eyes, Skin.
1309-64-4	Antimony trioxide	Systemic effects	Eyes, Respiratory system.
		sensitizer	Skin.

LC50 / LD50

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

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

67750PSC BT-HENDEE CHESTNUT BROWN

Version Number 1.1

Page 5 of 8

Revision Date 08/04/2003

Print Date 11/11/2011

CAS-No.	Chemical Name	Route	Value	Species
123-77-3	Azodicarbonamide	LC50	200 mg/l	rat
		Oral LD50	> 6,400 mg/kg	rat
		Dermal LD50	> 2,000 mg/kg	rabbit
25068-38-6	Bisphenol A - Epichlorohydrin polymer	Oral LD50	11,400 mg/kg	rat
		Dermal LD50	> 6,000 mg/kg	rabbit
1333-86-4	Carbon black	Oral LD50	> 15,400 mg/kg	rat
		Dermal LD50	> 3 gm/kg	rabbit
95-63-6	1,2,4-Trimethylbenzene	Oral LD50	5,000 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
1333-86-4	Carbon black	no	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.
- 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:

Azodicarbonamide 123-77-3 Sensitizer to the respiratory system with repeated minimal inhalation. While no chronic health problems have been identified, individuals with respiratory problems should avoid inhalation exposure to this material.

Additional Health Hazard Information:

Carbon black 1333-86-4 Carcinogenicity: Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph Volume 65, issued in April 1996 concluded that, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "Carbon Black is possibly carcinogenic to humans (Group 2B). Carbon Black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon black with PAH (polynuclear aromatic hydrocarbon) levels greater than 0.1% be considered suspect carcinogens.

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).



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

67750PSC BT-HENDEE CHESTNUT BROWN

Version Number 1.1
Revision Date 08/04/2003

Page 6 of 8
Print Date 11/11/2011

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 : 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
Antimony trioxide	1309-64-4	5.4365	1,000 lbs	18,394 LB

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

67750PSC BT-HENDEE CHESTNUT BROWN

Version Number 1.1
Revision Date 08/04/2003

Page 7 of 8
Print Date 11/11/2011

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

Not applicable

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
ALUMINUM OXIDE (FIBROUS FORMS)	1344-28-1	4.39
ANTIMONY COMPOUNDS	1309-64-4	5.43

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
Aluminum oxide	1344-28-1	4.39	13
Antimony trioxide	1309-64-4	5.43	17
1,2,4-Trimethylbenzene	95-63-6	0.94	233

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
1344-28-1
1309-64-4
1330-20-7
95-63-6

DSL : All of the components of this product are listed on the Canadian Inventories or are exempt. However, at least one component of this product is on the Canadian Non-Domestic Substances List (NDSL). Quantity use in Canada is restricted by regulations.

National Inventories:

Australia AICS : Not determined.

China IECS : Not determined.

Europe EINECS : Not determined.



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

67750PSC BT-HENDEE CHESTNUT BROWN

Version Number 1.1
Revision Date 08/04/2003

Page 8 of 8
Print Date 11/11/2011

Japan ENCS : Not determined.

Korea KECI : Not determined.

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