

POLYONE CORPORATION**MATERIAL SAFETY DATA SHEET****HT-33 YELLOW PLASTISOL HIGHER DURO**Version Number 1.0
Revision Date 12/02/2004Page 1 of 8
Print Date 11/16/2011**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 : HT-33 YELLOW PLASTISOL HIGHER DURO
Product code : FO20010378
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenylene oxymethylene)]bis-, homopolymer	25085-99-8	1 - 5
Trimethylpropane trimethacrylate	3290-92-4	5 - 10
Lead chromate	7758-97-6	0.1 - 1
Calcium oxide	1305-78-8	1 - 5
Dibasic lead phthalate, C ₈ H ₄ O ₆ Pb ₃	17976-43-1	1 - 5

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.

POLYONE CORPORATION**MATERIAL SAFETY DATA SHEET****HT-33 YELLOW PLASTISOL HIGHER DURO**

Version Number 1.0
Revision Date 12/02/2004

Page 2 of 8
Print Date 11/16/2011

Chronic exposure : Refer to Section 11 for Toxicological Information.

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, 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** : 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

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

HT-33 YELLOW PLASTISOL HIGHER DURO

Version Number 1.0
Revision Date 12/02/2004

Page 3 of 8
Print Date 11/16/2011

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 : 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)

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

HT-33 YELLOW PLASTISOL HIGHER DURO

Version Number 1.0
Revision Date 12/02/2004

Page 4 of 8
Print Date 11/16/2011

Components	Value	Exposure time	Exposure type	List:
Calcium oxide	2 mg/m3	Time Weighted Average (TWA):	Dust.	ACGIH
	5 mg/m3	PEL:	Dust.	OSHA Z1
Lead chromate	0.05 mg/m3	Time Weighted Average (TWA):	Dust. as Pb	OSHA
	0.03 mg/m3	OSHA Action level:	Dust. as Pb	OSHA
	0.012 mg/m3	Time Weighted Average (TWA):	as Cr	ACGIH
	0.05 mg/m3	Time Weighted Average (TWA):	as Pb	ACGIH
	0.1 mg/m3	Ceiling Limit Value:		OSHA Z2
	1 mg/m3	PEL:	as Cr	OSHA Z1
	0.05 mg/m3	PEL:	Total dust. as Pb	OSHA
Dibasic lead phthalate, C8H4O6Pb3	0.03 mg/m3	OSHA Action level:	as Pb	OSHA
	0.05 mg/m3	Time Weighted Average (TWA):	Total dust. as Pb	ACGIH

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid	Evaporation rate	: Not established
Appearance	: Viscous, liquid	Specific Gravity:	: Not determined
Color	: YELLOW	Bulk density	: Not applicable
Odor	: Very faint	Vapor pressure	: Not determined
Melting point/range	: Not applicable	Vapour 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 (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), 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).

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

HT-33 YELLOW PLASTISOL HIGHER DURO

Version Number 1.0
Revision Date 12/02/2004

Page 5 of 8
Print Date 11/16/2011

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
25085-99-8	Oxirane, 2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)]bis-, homopolymer	sensitizer	Skin.
3290-92-4	Trimethylopropane trimethacrylate	Irritant	Eyes, Skin.
7758-97-6	Lead chromate	Systemic effects	central nervous system (CNS), reproductive system.
1305-78-8	Calcium oxide	Irritant	Skin.
		Systemic effects	Eyes, Skin, Respiratory system.
		Corrosive	Skin.
17976-43-1	Dibasic lead phthalate, C8H4O6Pb3	Systemic effects	central nervous system (CNS).

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
7758-97-6	Lead chromate	Oral LD50	> 12 gm/kg	mouse

Carcinogenicity

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
7758-97-6	Lead chromate	no	no	1

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:

Lead chromate 7758-97-6 Systemic effects include neurotoxic, teratogenic, fetotoxic and reproductive with abdominal pain, anemia, pallor, decreased hand grip strength with characteristic "wrist drop".

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

HT-33 YELLOW PLASTISOL HIGHER DURO

Version Number 1.0
Revision Date 12/02/2004

Page 6 of 8
Print Date 11/16/2011

Additional Health Hazard Information:

Dibasic lead phthalate, C₈H₄O₆Pb₃ 17976-43-1 Systemic effects include neurotoxic, teratogenic, fetotoxic and reproductive with abdominal pain, anemia, pallor, decreased hand grip strength with characteristic "wrist drop".

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.

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)

Not applicable

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

HT-33 YELLOW PLASTISOL HIGHER DURO

Version Number 1.0
Revision Date 12/02/2004

Page 7 of 8
Print Date 11/16/2011

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 %
CHROMIUM VI COMPOUNDSLEAD COMPOUNDS, INORGANICLEAD COMPOUNDS	7758-97-6	0.42
LEAD COMPOUNDS, INORGANIC	7446-14-2	0.02
LEAD COMPOUNDS, ORGANIC	17976-43-1	3.74

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
Lead chromate	7758-97-6	0.42	235
Lead chromate	7758-97-6	0.42	236
Dibasic lead phthalate, C8H4O6Pb3	17976-43-1	3.74	236

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
1305-78-8
7758-97-6

DSL : DSL status has not been determined. Quantity use in Canada may be restricted by regulations.

National Inventories:

Australia AICS : Not determined

China IECS : Not determined

Europe EINECS : Not determined

Japan ENCS : Not determined



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

HT-33 YELLOW PLASTISOL HIGHER DURO

Version Number 1.0
Revision Date 12/02/2004

Page 8 of 8
Print Date 11/16/2011

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.