

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

10081756CLAY

Version Number 1.1
Revision Date 01/07/2005

Page 1 of 8
Print Date 1/9/2005

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION
33587 Walker Road, Avon Lake, OH 44012

Telephone : Product Stewardship (770) 271-5902
Emergency telephone number : CHEMTREC 1-800-424-9300 (24 hrs for spill, leak, fire, exposure or accident).
Product name : 10081756CLAY
Product code : CC00035169
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight%
8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester	57583-35-4	1- 5
Chromium(III) oxide	1308-38-9	1- 5
Iron oxide	1309-37-1	1- 5
Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	1- 5
Titanium dioxide	13463-67-7	10- 30

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors 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.

POTENTIAL HEALTH EFFECTS

Routes of Exposure : Inhalation, Ingestion, Skin contact

Acute exposure

Inhalation : Particulates, like other inert materials can be mechanically irritating. Excessive inhalation of product vapors, especially during heating or processing, may be irritating to respiratory system.
Ingestion : May be harmful if swallowed.
Eyes : Particulates, like other inert materials can be mechanically irritating.

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

10081756CLAY

Version Number 1.1
Revision Date 01/07/2005

Page 2 of 8
Print Date 1/9/2005

Skin : Experienceshowsnounusualdermatitishazardfromroutinehandling.

Chronicexposure : RefertoSection11forToxicologicalInformation.

**MedicalConditions
AggravatedbyExposure:** : Noneknown.

4.FIRSTAIDMEASURES

Inhalation : Movetofreshairincaseofaccidentalinhilationoffumesfrom
overheatingorcombustion. Whensymptomspersistorinallcasesof
doubtseekmedicaladvice.

Ingestion : Donotinducevomitingwithoutmedicaladvice. Whensymptoms
persistorinallcasesofdoubtseekmedicaladvice.

Eyes : Rinseimmediatelywithplentyofwater,alsoundertheeyelids,forat
least15minutes. Ifeyeirritationpersists,seekmedicalattention.

Skin : Washoffwithsoapandplentyofwater. Ifskinirritationpersists
seekmedicalattention.

5.FIRE-FIGHTINGMEASURES

Flashpoint : Notapplicable

FlammableLimits

Upperexplosionlimit : Notapplicable

Lowerexplosionlimit : Notapplicable

Autoignitiontemperature : Notapplicable

Suitableextinguishingmedia : Carbondioxideblanket,waterspray,drypowder,foamnone .

**SpecialFireFighting
Procedures** : Fullfaceself-containedbreathingapparatus(SCBA)usedinpositive
pressuremodeshouldbeworntopreventinhalationofairborne
contaminants.

**UnusualFire/Explosion
Hazards** : Carbondioxide(CO₂),carbonmonoxide(CO),oxidesofnitrogen
(NO_x),otherhazardousmaterials,andsmokeareallpossible. May
emitHydrogenChloride(HCl)orCarbonMonoxide(CO)underfire
conditions.

6.ACCIDENTALRELEASEMEASURES

Personalprecautions : Wearappropriatepersonalprotectionduringcleanup,suchas
imperviousgloves,bootsandcoveralls.

Environmentalprecautions : Shouldnotbereleasedintotheenvironment. Theproductshouldnot
beallowedtoenterdrains,watercoursesorthesoil.

Methodsforcleaningup : Cleanuppromptlybysweepingorvacuum. Packageallmaterialin

POLYONE CORPORATION**MATERIAL SAFETY DATA SHEET****10081756CLAY**Version Number 1.1
Revision Date 01/07/2005Page 3 of 8
Print Date 1/9/2005plastic, cardboard or metal containers for disposal. Refer to Section
13 of this MSDS for proper disposal methods.**7. HANDLING AND STORAGE**

- Handling : Take measures to prevent the buildup of electrostatic charge. Heat
only in areas with appropriate exhaust ventilation.
- Storage : Keep containers dry and tightly closed to avoid moisture absorption
and contamination. Keep in a dry, cool 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

10081756CLAY

Version Number 1.1
Revision Date 01/07/2005

Page 4 of 8
Print Date 1/9/2005

Components	Value	Exposure time	Exposure type	List:
8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexylester	0.1 mg/m ³	PEL:	asSn	OSHAZ1
	0.1 mg/m ³	Time Weighted Average (TWA):	asSn	ACGIH
	0.2 mg/m ³	Short Term Exposure Limit (STEL):	asSn	ACGIH
Chromium(III)oxide	0.5 mg/m ³	Time Weighted Average (TWA):	asCr	ACGIH
	0.5 mg/m ³	PEL:	asCr	OSHAZ1
Ironoxide	5 mg/m ³	Time Weighted Average (TWA):	Dust and fume. asFe	ACGIH
Stannane, methyltris(2-ethylhexyloxycarbonyl methylthio)-	0.1 mg/m ³	PEL:	asSn	OSHAZ1
	0.1 mg/m ³	Time Weighted Average (TWA):	asSn	ACGIH
	0.2 mg/m ³	Short Term Exposure Limit (STEL):	asSn	ACGIH
Titaniumdioxide	10 mg/m ³	Time Weighted Average (TWA):		ACGIH
	15 mg/m ³	PEL:	Total dust.	OSHAZ1

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Solid	Evaporation rate	: Not applicable
Appearance	: Pellets	Specific Gravity:	: Not determined
Color	: TAN	Bulk density	: Not established
Odor	: Very faint	Vapor pressure	: Not applicable
Melting point/range	: Not determined	Vapor density	: Not applicable
Boiling Point:	: Not applicable	pH	: Not applicable
Water solubility	: Insoluble		

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	: Avoid contact with strong oxidizers. Also, avoid contact with acetal or acetal copolymers and with amine containing materials during processing. At processing conditions, these materials are mutually destructive and involve rapid degradation. Thoroughly purge and

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

10081756CLAY

Version Number 1.1
Revision Date 01/07/2005

Page 5 of 8
Print Date 1/9/2005

mechanically clean processing equipment to avoid even trace quantities of these materials from coming in contact with each other. Prevent cross contamination of feed stocks.

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 (approximately 30 minutes or more) above 392°F (200°C) or short term heating at 482°F (250°C) may result in product decomposition and evolution of carbon monoxide and hydrogen chloride.

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
57583-35-4	8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexylester	Irritant	Eyes, Skin .
1308-38-9	Chromium(III)oxide	Irritant	Eyes, Skin .
		sensitizer	Skin.
1309-37-1	Ironoxide	Systemic effects	Respiratory system .
57583-34-3	Stannane, methyltris(2-ethylhexyloxycarbonylmet hylthio)-	Irritant	Eyes, Skin .
13463-67-7	Titaniumdioxide	Systemic effects	Respiratory system .

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
57583-34-3	Stannane, methyltris(2-ethylhexyloxycarbonylmet hylthio)-	Oral LD50	920mg/kg	rat

Additional Health Hazard Information:

Chromium(III)oxide 1308-38-9 The biand trivalent forms of chrome have a low order of acute toxicity but may cause skin sensitization and irritation to the eyes. No effects have been reported for chromium(III)oxide. Chromium(III) compounds are not considered carcinogenic in animals or humans.

12. ECOLOGICAL INFORMATION

Persistence and degradability : Not readily biodegradable.

Environmental Toxicity : Chemicals are not readily available as they are bound within the

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

10081756CLAY

Version Number 1.1
Revision Date 01/07/2005

Page 6 of 8
Print Date 1/9/2005

polymer matrix.

Bioaccumulation Potential : Chemicals are not readily available as they are bound within the polymer matrix.

Additional advice : No data available

13. DISPOSAL CONSIDERATIONS

Product : Like most thermoplastic plastic the product can be recycled. 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 : Not regulated for transportation.

ICAO/IATA (air) : Refers to specific regulation.

IMO/IMDG (maritime) : Refers 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

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
Not applicable

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

10081756CLAY

Version Number 1.1
Revision Date 01/07/2005

Page 7 of 8
Print Date 1/9/2005

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight%
ZINC COMPOUNDS	68187-51-9	4.07
CHROMIUM III COMPOUNDS	1308-38-9	3.74

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight%	NPRIID#
Aluminum oxide	1344-28-1	0.14	13
Zinc ferrite brown spinel (C.I. Pigment Yellow 119)	68187-51-9	4.07	231
Chromium(III) oxide	1308-38-9	3.74	69

WHMIS Classification : D2B

WHMIS Ingredient Disclosure List

CAS-No.
57583-35-4
1308-38-9
1309-37-1
57583-34-3

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

- Australia AICS : Not determined
- China IECS : Not determined
- Europe EINECS : Not determined
- Japan ENCS : Not determined
- Korea KECI : Not determined
- Philippines PICCS : Not determined

16. OTHER INFORMATION



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

10081756CLAY

Version Number 1.1
RevisionDate 01/07/2005

Page 8 of 8
PrintDate 1/9/2005

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.