

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

11487HVBTBRIGHTTIGERHV

Version Number 1.1
Revision Date 05/18/2004

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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 (24 hrs for spill, leak, fire, exposure or accident).**

Product name : 11487HVBTBRIGHTTIGERHV
Product code : FO00000551
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight%
Diphenyl oxide-4,4'-disulfohydrazide	80-51-3	1- 5
Silica, amorphous, fumed, crystal-free	112945-52-5	1- 5
Talc	14807-96-6	5- 10
Titanium dioxide	13463-67-7	30- 60

3. HAZARD 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****11487HVBTBRIGHTTIGERHV**Version Number 1.1
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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 in all cases of doubt seek medical advice.

Ingestion : Do not induce vomiting without medical advice. When symptoms persist 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

Flashpoint : 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 none

Special Fire Fighting Procedures : Full face 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 cleanup : 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

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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:
Diphenyl oxide-4,4'-disulfohydrazide	0.1 mg/m ³	Time Weighted Average (TWA):	Inhalable fraction.	ACGIH
Silica, amorphous, fumed, crystal-free	20 mppcf	PEL:	Total dust.	Z3
Talc	2 mg/m ³	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
Titanium dioxide	10 mg/m ³	Time Weighted Average (TWA):		ACGIH
	15 mg/m ³	PEL:	Total dust.	OSHA Z1

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid	Evaporation rate	: Not established
Appearance	: Viscous, liquid	Specific Gravity:	: Not determined
Color	: WHITE	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

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Watersolubility : 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 (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
80-51-3	Diphenyl oxide-4,4'-disulfohydrazide	Irritant	Eyes, Skin .
112945-52-5	Silica, amorphous, fumed, crystal-free	Irritant	Eyes, Respiratory system .
14807-96-6	Talc	Systemic effects	Eyes, Respiratory system, Skin.
13463-67-7	Titanium dioxide	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
112945-52-5	Silica, amorphous, fumed, crystal-free	Oral LD50	3,160 mg/kg	rat

12. ECOLOGICAL INFORMATION

Persistence and degradability : Not readily biodegradable.

Environmental Toxicity : Environmental toxicity has not been established for this mixture as a

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whole.

BioaccumulationPotential : Nodataavailable

Additionaladvice : Nodataavailable

13.DISPOSALCONSIDERATIONS

Product : Wherepossible,recyclingispreferredtodisposalorincineration. The generatorofwastematerialhas theresponsibilityforproperwaste classification,transportationanddisposalinaccordancewith applicablefederal,state/provincialandlocalregulations.

Contaminatedpackaging : Recyclingispreferredwhenpossible. Thegeneratorofwaste materialhas theresponsibilityforproperwaste classification, transportationanddisposalinaccordancewithapplicablefederal, state/provincialandlocalregulations.

14.TRANSPORTINFORMATION

U.S.DOTClassification : Refertospecificregulation.

ICAO/IATA(air) : Refertospecificregulation.

IMO/IMDG(maritime) : Refertospecificregulation.

15.REGULATORYINFORMATION

USRegulations:

OSHAStatus : Classifiedashazardousbasedoncomponents.

TSCAStatus : Allcomponentsofthisproductarelistedonorexemptfromthe TSCAInventory.

US.EPACERCLAHazardousSubstances(40CFR302)

Notapplicable

CaliforniaProposition : WARNING!ThisproductcontainsachemicalknowntotheStateof 65 Californiatocausecancer.

SARATitleIIISection302ExtremelyHazardousSubstance

Notapplicable

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SARA Title III Section 313 Toxic Chemicals:

Not applicable
Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight%	NPRI ID#
Phthalic Anhydride	85-44-9	0.12	199

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
14807-96-6
85-44-9

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 : Listed
- Europe EINECS : Listed
- Japan ENCS : Not determined
- Korea KECI : Listed
- 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.