Material Safety Data Sheet

Antimony Trioxide TMS®-HP/Timonox® Blue Star Polymer Grade

Version: 1.7 Revision Date: 06/29/2012 Print Date: 07/16/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name**:** *Antimony Trioxide TMS®-HP/Timonox® Blue Star Polymer Grade*

Product Use Description**:** Catalyst
Fire retardant

Chemical nature**:**

Company**:** Chemtura Corporation
199 Benson Road
Middlebury, CT
06749
United States of America

Telephone: (US) +1 866-430-2775

Emergency telephone number**:** CHEMTREC: (24 hours) 800-424-9300
:
Chemtura Corporation Emergency Response: CHEMTURA : 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

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06/29/2012

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SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING!

Form: powder Colour: white Odour: odourless

Hazard Summary : Irritating to eyes, respiratory system and skin.
Limited evidence of a carcinogenic effect.

OSHA Hazards : COMBUSTIBLE DUST
CARCINOGEN

Potential Health Effects

Primary Routes of Entry : Inhalation

		Ingestion Skin contact
Aggravated Medical Condition	:	Dermatitis Respiratory disorders
Target Organs	:	Respiratory system Lungs Skin Heart
Inhalation	:	Dust may cause irritation of the respiratory tract.
Skin	:	May cause skin irritation. Repeated or prolonged skin contact may cause a dermatitis termed "antimony spots". Symptoms may include intense itching followed by skin eruptions that are most common in areas of friction and sweating.
Eyes	:	Causes eye irritation.
Ingestion	:	Prolonged and excessive ingestion may cause gastrointestinal upset, ulcers, blood effects, liver effects, neurological effects, inflammation of mucous membranes and stomatitis. The similarity of these symptoms with those of other illnesses requires that excessive absorption of antimony be verified by biological specimens.
Chronic Exposure	:	Prolonged and excessive inhalation or ingestion exposures to antimony or antimony trioxide may result in respiratory effects, antimony pneumoconiosis, pulmonary fibrosis, inflammation of the lungs, airway obstruction, bronchospasm, chronic bronchitis, reproductive effects, cardiovascular effects, gastrointestinal upset, ulcers, liver effects, blood effects and neurological effects. Antimony trioxide has been classified by IARC as a Class 2B. An IARC 2B material exhibits sufficient evidence in animal tests (possible human carcinogen). Antimony trioxide production has been determined by ACGIH to be a carcinogenic risk. Antimony trioxide has been identified by the EPA as a suspected lung carcinogen (IARC Class 2B).
Symptoms of Overexposure	:	carcinogenic effects irritant effects Symptoms may be delayed.

Carcinogenicity:

IARC	Group 2B: Possibly carcinogenic to humans	
	diantimony trioxide	1309-64-4
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.	
ACGIH	Suspected human carcinogen	
	diantimony trioxide	1309-64-4

Environmental Effects

Environmental Effects : May cause long-term adverse effects in the environment.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component / CAS-No.	Weight percent
diantimony trioxide 1309-64-4	100 <= 100 %

SECTION 4. FIRST AID MEASURES

First aid procedures

Inhalation : Remove to fresh air.
Get medical attention.

Skin contact : Wash skin thoroughly with soap and water for at least 15 minutes.
If skin irritation occurs: Get medical advice/ attention.

Eye contact : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.
Get medical attention.

Ingestion : If conscious, make the victim drink the following:
Drink 1 or 2 glasses of water.
Get medical attention immediately.

Notes to physician

Symptoms : carcinogenic effects
irritant effects
Symptoms may be delayed.

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
For specialist advice physicians should contact the Poisons Information Service.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

Fire fighting

Suitable extinguishing media : All conventional media are suitable.

Unsuitable extinguishing media : High volume water jet

Further information : In the event of fire, wear self-contained breathing apparatus.

Wear personal protective equipment.

Protective equipment and precautions for firefighters

Specific hazards during firefighting : Burning produces noxious and toxic fumes.
Thermal decomposition can lead to release of irritating gases and vapours.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : For personal protection see section 8.

Environmental precautions : Avoid release to the environment.

Methods for containment / Methods for cleaning up : Clean up promptly by scoop or vacuum.
Do not create a powder cloud by using a brush or compressed air.
Keep in suitable, closed containers for disposal.
Clean contaminated surface thoroughly.
Flush with water.

Additional advice : Keep in properly labelled containers.
Dispose of rinse water as waste water.

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Use personal protective equipment as required.
Avoid contact with skin, eyes and clothing.
Avoid breathing dust.
Avoid repeated exposure.
Avoid creating dust.
Use only in well-ventilated areas.
Smoking, eating and drinking should be prohibited in the application area.

Storage

Requirements for storage areas and containers : Keep in a dry, cool and well-ventilated place.
Isolate from incompatible materials.
Keep container tightly closed.

Other data : Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	Further information
diantimony trioxide 1309-64-4	TWA OSHA P1	0.5 mg/m3	

	1997-08-04		
	TWA OSHA P0 1989-01-19	0.5 mg/m3	

Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	Further information
diantimony trioxide 1309-64-4	TWA OSHA P1 1997-08-04	0.5 mg/m3	
	TWA OSHA P0 1989-01-19	0.5 mg/m3	
lead 7439-92-1	TWA ACGIH 2007-01-01	0.05 mg/m3	
	TWA NIOSH REL 2005-09-01	0.05 mg/m3	
arsenic 7440-38-2	TWA ACGIH 2007-01-01	0.01 mg/m3	
	C NIOSH REL 2005-09-01	0.002 mg/m3	

Engineering measures

Engineering measures : Use mechanical ventilation for general area control.
Ensure that extracted air cannot be returned to the workplace through the ventilation system.
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye protection : Safety goggles

Hand protection : Impervious butyl rubber gloves

Replace when worn.

Skin and body protection	:	impervious clothing
Respiratory protection	:	Wear a NIOSH/MSHA approved dust respirator if dusting occurs, or there is potential for airborne exposures to exceed established threshold values. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes and clothing. Do not inhale aerosol. Ensure adequate ventilation, especially in confined areas. When using do not eat, drink or smoke. Wash thoroughly after handling. Keep working clothes separately. Remove and wash contaminated clothing before re-use. Contaminated work clothing should not be allowed out of the workplace.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	:	powder
Colour	:	white
Odour	:	odourless

Safety data

Melting point/range	:	1,211 °F (655 °C)
Boiling point/boiling range	:	2,597 °F (1,425 °C)
Vapour pressure	:	no data available
Specific Gravity	:	5.5 at
Water solubility	:	Note: insoluble

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	:	Remarks: Exposure to moisture.
Materials to avoid	:	Remarks: Strong acids Strong bases Strong oxidizing agents
Hazardous decomposition	:	Note: Antimony oxide

products
Hazardous reactions : Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity
diantimony trioxide : LD50: > 34,600 mg/kg
Species: rat

Acute inhalation toxicity : Remarks: Not classified due to lack of data.

Acute dermal toxicity :
Remarks: Not classified due to lack of data.

Skin irritation
diantimony trioxide : Remarks: May irritate skin.

Eye irritation
diantimony trioxide : Remarks: May irritate eyes.

Aspiration toxicity : No aspiration toxicity classification

Toxicology Assessment

CMR effects : Carcinogenicity:
Limited evidence of a carcinogenic effect.
Mutagenicity:
Not classified due to lack of data.
Reproductive toxicity:
Not classified due to lack of data.

Further information : The toxicological properties of this material have not been fully characterized.
As with all dusts, inhalation of air concentration levels above the PNOR may cause irritation and adverse lung effects.

:

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish :
Remarks:
no data available

Toxicity to daphnia and other aquatic invertebrates
diantimony trioxide : EC50: > 1,000 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Toxicity to algae
diantimony trioxide : 67 mg/l
Exposure time: 72 h
Species: Algae

Elimination information (persistence and degradability)

Bioaccumulation : Remarks:
no data available

Mobility : Remarks:
no data available

Biodegradability : Result: no data available

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
Additional ecological information : Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of waste material in compliance with all federal, state, and local regulations.
Dispose of wastes in an approved waste disposal facility.

SECTION 14. TRANSPORT INFORMATION

DOT
Not dangerous goods

TDG
Not dangerous goods

IATA
Not dangerous goods

IMDG
Not dangerous goods

RID
Not dangerous goods

Not regulated for containers less than 1000 lb.

For containers 1,000-9,999 lb: Environmentally hazardous substances, solid, n.o.s. (Contains Arsenic and Antimony Trioxide)

For containers 10,000 lb or greater: Environmentally hazardous substances, solid, n.o.s. (Contains Arsenic, Lead and Antimony Trioxide)

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Combustible dust, Carcinogen

SARA 311/312 Hazards : Chronic Health Hazard

California Prop. 65 Components : Teratogen with sufficient evidence of risk in humans

WARNING! This product contains a chemical known to the State of California to cause cancer.

diantimony trioxide	1309-64-4 diantimony trioxide

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

WARNING! This product contains a chemical known to the State of California to cause cancer.

diantimony trioxide	1309-64-4 diantimony trioxide
Lead	7439-92-1 lead

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Lead	7439-92-1 lead

The components of this product are reported in the following inventories:
US.TSCA On TSCA Inventory

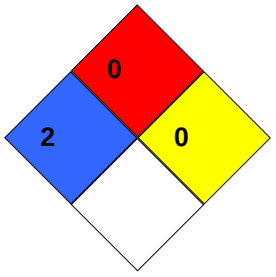
DSL	All components of this product are on the Canadian DSL list.
AICS	On the inventory, or in compliance with the inventory
NZIoC	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
CH INV	The formulation contains substances listed on the Swiss Inventory

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 2
Chronic Health Hazard: *
Flammability: 1
Reactivity: 0
PPI:Ask supervisor or safety specialist for handling instructions

NFPA Classification : Health hazard: 2
Fire Hazard: 0
Reactivity Hazard: 0



Other Emergency Phone Number

Latin America:	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
Mexico:		+52 555 004 8763

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.