

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 10/19/2012

MSDS Number: R0067662

Version: 1.2

FILR ANTIMONY TRIOXIDE
THERMOGUARD
22318

Inhalation

This material is a dust or may produce dust. Prolonged or repeated breathing of this material may result in chronic bronchitis (inflammation of the airways of the lungs). Symptoms include coughing and shortness of breath. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: antimony measles (a red, pimply rash), stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways)

Target Organs

Long-term breathing of antimony trioxide dust by experimental animals has resulted in progressive and permanent changes in the lungs (fibrosis), presumably due to large deposits of dust. Long-term breathing of antimony trioxide dust and fume has caused lung irritation in workers with effects including cough, bronchitis, emphysema and other types of lung damage. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: liver abnormalities, cataracts, female reproductive effects, effects on female fertility

Carcinogenicity

Antimony trioxide has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain. Antimony trioxide is listed as a carcinogen by the International Agency for Research on Cancer (IARC).

Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

3. COMPOSITION/INFORMATION ON INGREDIENTS
--

Hazardous Components	CAS-No.	Concentration

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 10/19/2012

MSDS Number: R0067662

Version: 1.2

FILR ANTIMONY TRIOXIDE
THERMOGUARD
22318

ANTIMONY TRIOXIDE

1309-64-4

<=100%

4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: No information available.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray

Hazardous combustion products

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 10/19/2012

MSDS Number: R0067662

Version: 1.2

FILR ANTIMONY TRIOXIDE
THERMOGUARD
22318

No data

Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Avoid breathing dust.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Pick up and arrange disposal without creating dust.

Other information

Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Avoid dust formation.

Storage

Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 10/19/2012

MSDS Number: R0067662

Version: 1.2

FILR ANTIMONY TRIOXIDE
THERMOGUARD
22318

Exposure Guidelines

ANTIMONY TRIOXIDE		1309-64-4
CAD BC OEL	time weighted average	0.5 mg/m ³
CAD ON OEL	time weighted average	0.5 mg/m ³
OEL (QUE)	time weighted average	0.5 mg/m ³
CAD AB OEL	time weighted average	0.5 mg/m ³

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Avoid breathing dust.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects. Provide appropriate exhaust ventilation at places where dust is formed.

Eye protection

Wear safety glasses or chemical splash goggles when dust exposure is possible.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Wear resistant gloves (consult your safety equipment supplier).

Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 10/19/2012

MSDS Number: R0067662

Version: 1.2

FILR ANTIMONY TRIOXIDE
THERMOGUARD
22318

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	solid
Form	Crystals, polymorphic
Colour	white
Odour	Odorless
Boiling point/boiling range	2,597 °F / 1,425 °C
Melting point/range	1,211 °F / 655 °C
Sublimation point	no data available
pH	no data available
Flash point	no data available
Ignition temperature	no data available
Evaporation rate	no data available
Lower explosion limit/Upper explosion limit	no data available
Particle size	no data available
Vapour pressure	0.133 kPa @ 1,065 °F / 574 °C
Relative vapour density	no data available
Density	3.00 g/cm ³ @ 77 °F / 25 °C
Bulk density	No data
Water solubility	no data available
Solubility(ies)	no data available
Partition coefficient: n-octanol/water	no data available
log Pow	no data available
Autoignition temperature	no data available
Viscosity, dynamic	no data available
Viscosity, kinematic	no data available
Solids in Solution	no data available
Decomposition temperature	no data available
Burning number	no data available
Dust explosion constant	no data available
Minimum ignition energy	no data available

10. STABILITY AND REACTIVITY

Stability

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 10/19/2012

MSDS Number: R0067662

Version: 1.2

FILR ANTIMONY TRIOXIDE
THERMOGUARD
22318

Stable.

Conditions to avoid

Keep away from heat, flame, sparks and other ignition sources.

Incompatible products

Acids, chlorinated rubber, perchloric acid, Strong oxidizing agents

Hazardous decomposition products

toxic fumes

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD 50 Rat : > 34,600 mg/kg
: LD 50 Rat : > 20,000 mg/kg

Acute inhalation toxicity
ANTIMONY TRIOXIDE : no data available

Acute dermal toxicity : LD 50 Rabbit: (>) 2,000 mg/kg

12. ECOLOGICAL INFORMATION

Biodegradability
ANTIMONY TRIOXIDE : no data available

Bioaccumulation
ANTIMONY TRIOXIDE : no data available

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 10/19/2012

MSDS Number: R0067662

Version: 1.2

FILR ANTIMONY TRIOXIDE
THERMOGUARD
22318

Ecotoxicity effects

Toxicity to fish

ANTIMONY TRIOXIDE : 96 h LC 50 Bluegill (*Lepomis macrochirus*): > 440.00 mg/l Method: Static; Mortality
96 h LC 50 Fathead minnow (*Pimephales promelas*): > 80.00 mg/l Method: Static; Mortality

Toxicity to daphnia and other aquatic invertebrates.

ANTIMONY TRIOXIDE : no data available

Toxicity to algae

ANTIMONY TRIOXIDE : no data available

Toxicity to bacteria

ANTIMONY TRIOXIDE : no data available

Biochemical Oxygen Demand (BOD)

ANTIMONY TRIOXIDE : no data available

Chemical Oxygen Demand (COD)

ANTIMONY TRIOXIDE : no data available

Additional ecological information

ANTIMONY TRIOXIDE : no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 10/19/2012

MSDS Number: R0067662

Version: 1.2

FILR ANTIMONY TRIOXIDE
THERMOGUARD
22318

14. TRANSPORT INFORMATION

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
-----------	----------------------	---------------	--------------------	---------------	------------------------------

U.S. DOT - ROAD

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 10/19/2012

MSDS Number: R0067662

Version: 1.2

FILR ANTIMONY TRIOXIDE
THERMOGUARD
22318

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

WHMIS Classification

D2A Very Toxic Material Causing Other Toxic Effects

D2B Toxic Material Causing Other Toxic Effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Canadian National Pollutant Release Inventory (NPRI)

ANTIMONY TRIOXIDE 100.00 %

Notification status

Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)
Japan. Kashin-Hou Law List	y (positive listing)
US. Toxic Substances Control Act	y (positive listing)
EU. EINECS	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 10/19/2012

MSDS Number: R0067662

Version: 1.2

FILR ANTIMONY TRIOXIDE
THERMOGUARD
22318

	HMIS	NFPA
Health	2*	2
Flammability	0	0
Physical hazards	0	
Instability		0
Specific Hazard	--	--

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO's Environmental Health and Safety Department (1-800-325-3751).