

# SAFETY DATA SHEET

Creation Date 11-Jul-2014

Revision Date 11-Jul-2014

**Revision Number** 1

1. Identification

**Product Name** 

AC193510000; AC193510250; AC193511000

Synonyms

Cat No. :

Mercuric oxide

Mercury(II) oxide

Laboratory chemicals.

Recommended Use

Uses advised against No Information available Details of the supplier of the safety data sheet

**Company** Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410 Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

# 2. Hazard(s) identification

## **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Acute dermal toxicity Acute Inhalation Toxicity - Dusts and Mists Specific target organ toxicity - (repeated exposure)

Category 2 Category 2 Category 2 Category 2

# Label Elements

Signal Word Danger

**Hazard Statements** 

Fatal if swallowed Fatal in contact with skin Fatal if inhaled May cause damage to organs through prolonged or repeated exposure



Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not get in eyes, on skin, or on clothing
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear respiratory protection
Response
Get medical attention/advice if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
Skin
Immediately call a POISON CENTER or doctor/physician
IF ON SKIN: Gently wash with plenty of soap and water
Remove/Take off immediately all contaminated clothing
Wash contaminated clothing before reuse
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects
Other hazards

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

3. Composition / information on ingredients					
Component		CAS-No	Weight %		
Mercuric oxide		21908-53-2	100		
	4.	First-aid measures			
Eye Contact		Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.			
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.				
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.				
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.				
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically				
	5. Fir	re-fighting measure	S		
Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.				
Unsuitable Extinguishing Media	No informatio	n available			
Flash Point Method -	No information available No information available				

Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	t No information available
Sensitivity to Static Discharge	No information available

#### **Specific Hazards Arising from the Chemical**

Very toxic. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

# Hazardous Combustion Products oxygen

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### NFPA

Health 4	<b>Flammability</b> 0	Instability 1	Physical hazards N/A	
	6. Accidental rel	ease measures		
Personal Precautions	Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.			
Environmental Precautions	Should not be released into the environment. See Section 12 for additional ecological information.			
Methods for Containment and C Up		ing apparatus and protective s ble container for disposal. Avo		

# 7. Handling and storage

HandlingUse only under a chemical fume hood. Wear personal protective equipment. Avoid dust<br/>formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest.

#### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

# 8. Exposure controls / personal protection

## Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mercuric oxide	TWA: 0.025 mg/m³ Skin	(Vacated) Ceiling: 0.1 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> TWA: 0.05 mg/m <sup>3</sup> Ceiling: 0.1 mg/m <sup>3</sup>

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Mercuric oxide	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>
	Skin		Skin

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.

## **Respiratory Protection**

Hygiene Measures

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Yellow-orange
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	500 °C / 932 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available
Molecular Formula	Hg O
Molecular Weight	216.59

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under recommended storage conditions. Light sensitive.	
Conditions to Avoid	Avoid dust formation. Exposure to light. Incompatible products.	
Incompatible Materials	Chlorine, Peroxides, Metals, Reducing agents, Powdered metals	
Hazardous Decomposition Products oxygen		
Hazardous Polymerization	No information available.	
Hazardous Reactions	None under normal processing.	
Acute Toxicity	11. Toxicological information	

Acute Toxicity

Product Information		No acute toxicity ir	nformation is availa	able for this produc	t	
Component Informa Toxicologically Syn		No information ava	ailable			
	Products Delayed and immediate effects as well as chronic effects from short and long-term exposure_					
Irritation		No information available				
Sensitization		No information available				
<b>Carcinogenicity</b> The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Mercuric oxide	21908-53-2	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects	No information available	
Reproductive Effects	No information available.	
Developmental Effects	No information available.	
Teratogenicity	No information available.	
STOT - single exposure STOT - repeated exposure	None known None known	
Aspiration hazard	No information available	
Symptoms / effects, both acute and delayed	No information available	
Endocrine Disruptor Information	No information available	
Other Adverse Effects	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.	
12. Ecological information		

Ecotoxicity Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains.

Persistence and Degradability	No information available
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	No information available.

# 13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT	
UN-No	UN1641
Proper Shipping Name	MERCURY OXIDE
Hazard Class	6.1
Packing Group	II
TDG	
UN-No	UN1641
Proper Shipping Name	MERCURY OXIDE
Hazard Class	6.1
Packing Group	II
IATA	
UN-No	UN1641
Proper Shipping Name	MERCURY OXIDE
Hazard Class	6.1
Packing Group	II
IMDG/IMO	
UN-No	UN1641
Proper Shipping Name	MERCURY OXIDE
Hazard Class	6.1
Packing Group	
	15. Regulatory information

## **International Inventories**

Waste Disposal Methods

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
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Mercuric oxide	X	X	-	244-654-7	-	X	X	X	X	X
Managenia accida				044.054.7						

# Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b)

Not applicable

## **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Mercuric oxide	21908-53-2	100	1.0
SARA 311/312 Hazardous Categorization			
Acute Health Hazard	Yes		
Chronic Health Hazard	Yes		
Fire Hazard	No		
Sudden Release of Pressure Hazard	No		
Reactive Hazard	No		

#### **Clean Water Act**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Mercuric oxide	-	-	Х	-

## **Clean Air Act**

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Mercuric oxide	Х		-

**OSHA** Occupational Safety and Health Administration Not applicable

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component		Hazardous Substances RQs	CERCLA EHS RQs
Mercuric oxide		-	500 lb
California Proposition 65	This product	contains the following Proposition 65 ch	emicals:

California Proposition 65 This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Mercuric oxide	21908-53-2	Developmental	-	Developmental
State Right-to-Know				

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Mercuric oxide	Х	Х	Х	Х	-

# U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

## U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

#### Other International Regulations

### Mexico - Grade

No information available

#### Canada

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

#### WHMIS Hazard Class

D1A Very toxic materials D2A Very toxic materials



Prepared By

Creation Date Revision Date Print Date Revision Summary 16. Other information Regulatory Affairs

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11-Jul-2014 11-Jul-2014 11-Jul-2014 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

#### Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

