

# SDS—Sensors except formaldehyde and hydrazine

## SECTION 1: IDENTIFICATION

**Revision Date:** 09/10/2019

**Product Name:** Bromine, Carbon Monoxide, Chlorine, Chlorine Dioxide, Ethylene, Ethylene Oxide, Hydrogen, Hydrogen Bromide, Hydrogen Chloride, Hydrogen Cyanide, Hydrogen Peroxide, Hydrogen Sulfide, Nitric Oxide, Ozone, peracetic Acid, Propylene Oxide, and Sulfur Dioxide Sensor.

**Company:** Interscan Corporation  
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Simi Valley, CA. 93063  
United States

**Interscan Corporation:** (818) 882-2331

**Emergency Contact:** (805) 501-7551

**Recommended use:** For use only in Interscan Monitors or Interscan OEMs in good standing.

## SECTION 2: HAZARD(S) IDENTIFICATION

### Single word

### Warning



### Hazard statement(s)

H302  
H314  
H351

Harmful if swallowed.  
Causes severe skin burns and eye damage.  
Suspected of causing cancer

### Precautionary statement(s)

P260  
P264  
P270  
P301 + P312

Do not breathe dust or mist.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor.

P363

Wash contaminated clothing before reuse.

P501

Dispose of contents/ container to an approved waste disposal plant.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	% (WEIGHT)
Sulfuric Acid	7664-93-9	<1%
Biopersistent glass microfiber	Not Assigned	<33%
HIVAL® PS HI 5308M	Not Assigned	<38.5%
Lead Dioxide	1309-60-0	<10%

### SECTION 4: FIRST-AID MEASURES

Electrolyte (liquid) contact with skin

Immediately rinse well with water.

Electrolyte (liquid) contact with eyes

Remove contact lens and immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

### SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Use CO<sub>2</sub>, alcohol resistant foam, dry chemical.  
DO NOT USE WATER!

Special protective equipment for Firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Carbon Oxides, Sulfur Oxides of Hydrogen.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up

Avoid breathing vapors. Take up mechanically without creating dust. Neutralize with mild Alkaline solution. Clean area with water.

### SECTION 7: HANDLING AND STORAGE

**Storage**

Store in cool, dry, well-ventilated area.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****Glass Microfiber Components workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Biopersistent glass microfiber	Not Assigned	TWA	1 fibre/cm <sup>3</sup>	ACGIH
Nuisance dust	Not Assigned	TWA (Total particulate)	15 mg/m <sup>3</sup>	OSHA
		TWA (Respirable fraction)	5 mg/m <sup>3</sup>	OSHA

**Sulfuric Acid Components workplace control parameters**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulfuric acid	TWA: 0.2 mg/m <sup>3</sup>	(Vacated) TWA: 1 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	IDLH: 15 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>

Component	Quebec	Mexico OEL (TWA)	Ontario TWA EV
Sulfuric acid	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical Properties:****I] Sulfuric Acid**

- |    |                              |  |
|----|------------------------------|--|
| a) | Appearance                   | Form: Liquid<br>Color: Clear, Colorless to brown |
| b) | Odor                         | odorless   |
| c) | Odor Threshold               | No data available                                |
| d) | pH                           | 0.3 (1N)   |
| e) | Melting Point/freezing point | Melting Point: 10°C (50°F)                       |
| f) | Initial boiling point and    | 290 – 338 °C (554 – 640.4 °F)                    |
| g) | Flash Point                  | Not applicable                                   |
| h) | Evaporation rate             | Will not evaporate at ambient conditions         |

i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor Pressure	< 0.001 mmHg @ 20 °C
l)	Vapor density	No Data Available
m)	Relative density	>1.67 (75% solution), 1.84 (98% solution)
n)	Water solubility	Soluble in water
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	Moderately Strong

**II] Biopersistent glass microfiber**

a)	Appearance	Fiber Glass Color: white
b)	Odor	odorless
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting Point/freezing point	No data available
f)	Initial boiling point and	No data available
g)	Flash Point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor Pressure	No data available
l)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available

t) Oxidizing properties No data available

**III] HIVAL® PS HI 5308M**

a)	Appearance	Form: Solid Color: Black
b)	Odor	faint
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting Point/freezing point range	79 - 135°C (174- 275°F)
f)	Initial boiling point and	No data available
g)	Flash Point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor Pressure	No data available
l)	Vapor density	No data available
m)	Relative density	1.03 -1.05 @ 20 – 25 °C (68 - 77°F)
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	400°C ( 752°F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

**IV] Lead Dioxide**

a)	Appearance	Dark Brown Solid
b)	Odor	odorless
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting Point/freezing point	290°C
f)	Initial boiling point and	No data available
g)	Flash Point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or	No data available

	explosive limits	
k)	Vapor Pressure	No data available
l)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	Insoluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	>290°C
r)	Viscosity	No data available
s)	Explosive properties	No data available

## SECTION 10: STABILITY AND REACTIVITY

### I] Sulfuric Acid

Reactivity:	Reacts violently with water, exothermic, hygroscopic.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No data available.
Hazardous decomposition products:	Sulfur Oxide, Hydrogen
Other decomposition products:	No data available

### II] Biopersistent glass microfiber

Reactivity :	No decomposition if stored and applied as directed.
Chemical stability :	No decomposition if stored and applied as directed.
Possibility of hazardous reactions:	Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid :	No data available

### III] HIVAL® PS HI 5308M

Reactivity:	No Dangerous reaction known under conditions of normal use.
Chemical stability:	Stable under normal conditions
Possibility of hazardous reactions:	Stable under normal conditions
Conditions to avoid:	Keep away from heat and flame

**IV] Lead Dioxide**

Reactivity: Reacts with metallic powders

Chemical stability: Stable under normal conditions

Possibility of hazardous reactions: None under normal processing

Conditions to avoid: Incompatible materials and dust formation

Hazardous decomposition products: Lead Oxides. Oxygen Gases.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**I] Sulfuric Acid:**

**Acute toxicity:** LD50 Oral - Rat - > 2000 mg/kg  
 Inhalation: LC50 = 510 mg/m3 ( Rat ) 2 h  
 Dermal: ATE > 2000 mg/kg.

**Skin corrosion/irritation:** Skin - Rabbit  
 Result: Skin irritation - immediate

**Serious eye damage/eye irritation:** Eyes - Rabbit  
 Result: Severe eye burn

**Respiratory or skin sensitization:** Severe burning to skin

**Germ cell mutagenicity:** No data available

**Carcinogenicity:**

The table below indicates whether each agency has listed any ingredient as a carcinogen. Exposure to strong inorganic mists containing sulfuric acid may cause cancer by inhalation.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sulfuric acid	7664-93-9	Group 1	Known	A2	X	A2

**IARC:** IARC: (International Agency for Research on Cancer)  
 Group 1 - Carcinogenic to Humans  
 Group 2A - Probably Carcinogenic to Humans  
 Group 2B - Possibly Carcinogenic to Humans

**ACGIH:** A1 - Known Human Carcinogen  
 A2 - Suspected Human Carcinogen  
 A3 - Animal Carcinogen

**NTP:** NTP: (National Toxicity Program)  
 Known - Known Carcinogen  
 Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

**Reproductive toxicity:** No data available

**Specific target organ toxicity - single exposure:** No data available

**Specific target organ toxicity - repeated exposure:** No data available

**Aspiration hazard:** No data available

**Additional Information**

**Symptoms / effects, both acute and Delayed** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes

	<b>Endocrine Disruptor Information</b>	severe swelling, severe damage to delicate tissue and danger of perforation. No data available
II]	<b>Biopersistent glass microfiber</b>	
	<b>IARC Group 3:</b>	Not classifiable as to its carcinogenicity to humans
	<b>OSHA:</b>	Biopersistent glass microfiber Suspected human carcinogen
	<b>NTP:</b>	Reasonably anticipated to be a human carcinogen
III]	<b>HIVAL® PS HI 5308M</b>	
	<b>Acute oral toxicity:</b>	The substance or mixture has no acute oral toxicity
	<b>Acute Inhalation toxicity:</b>	The substance or mixture has no acute inhalation toxicity
	<b>Acute dermal toxicity:</b>	The substance or mixture has no acute dermal toxicity
	<b>Serious eye damage/irritation:</b>	No eye irritation
	<b>Respiratory or skin sensitization:</b>	Does not cause respiratory or skin sensitization
	<b>Germ cell mutagenicity:</b>	Classification not possible
	<b>Carcinogenicity:</b>	Not classifiable as a human carcinogen
	<b>Reproductive toxicity:</b>	No toxicity to reproduction
	<b>Specific Target Organ Toxicity</b>	
	<b>-single exposure:</b>	No data available
	<b>-repeated exposure</b>	No data available
IV]	<b>Lead Dioxide</b>	
	<b>Acute toxicity:</b>	No additional information
	<b>Chronic toxicity:</b>	No additional information
	<b>Corrosion Irritation:</b>	No additional information
	<b>Sensitization:</b>	No additional information
	<b>Single Target Organ (STOT):</b>	1309-60-0 Large dust exposure may cause encephalopathy, seizures, coma, and cardio respiratory arrest. Central Nervous System impairment, Hematologic effects, and Peripheral Nervous System impairment.
	<b>Numerical Measures:</b>	No additional information
	<b>Carcinogenicity:</b>	1309-60-0: OSHA specifically regulated carcinogen (Lead Dioxide)
	<b>Mutagenicity:</b>	No additional information
	<b>Reproductive toxicity:</b>	1309-60-0 May cause congenital malformation in the fetus. Known human reproductive toxicant.



## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Freshwater Water Environment

Very toxic to aquatic environment. May cause long term  
May cause log-term adverse effects in aquatic  
Environment.

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

**Disposal of residual product:**

In accordance with local and national regulations.

## SECTION 14: TRANSPORT INFORMATION

### International transport regulations

These products are not classified as dangerous goods according to international transport regulations.

## SECTION 15: REGULATORY INFORMATION

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 311/312 Hazard Categories

**Acute Health**

Yes

**Chronic Health**

Yes

**Fire**

No

**Sudden Release of Pressure**

No

**Reactive**

Yes

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ. This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

### U.S. State Right-to-Know

#### Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sulfuric acid	X	X	X	X	X

**California Prop. 65 Components**

Glass wool fibers (inhalable and biopersistent)

**CERCLA Reportable Quantity****DSL:**

WARNING! This product contains a chemical known to the State of California to cause cancer.  
Not Assigned

This material does not contain any components with a CERCLA RQ.

All components of this product are on the Canadian DSL.

**SECTION 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 used in combination with any other materials or in any process, unless specified in the text.