

SDS—Sensors except formaldehyde and hydrazine

SECTION 1: IDENTIFICATION

Revision Date: 06/13/2017

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

P301 + P330 + P331

P303 + P361 + P353

P304 + P340

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.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
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	Proprietary
Biopersistent glass microfiber	Not Assigned	<33%
HIVAL® PS HI 5308M	Not Assigned	<38.5%

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 CO₂, 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 ³	ACGIH
Nuisance dust	Not Assigned	TWA (Total particulate)	15 mg/m ³	OSHA
		TWA (Respirable fraction)	5 mg/m ³	OSHA

Sulfuric Acid Components workplace control parameters

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

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

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
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

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

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 severe swelling, severe damage to delicate tissue and danger of perforation.
Endocrine Disruptor Information	No data available

II]	Biopersistent glass microfiber	
	IARC Group 3:	Not classifiable as to its carcinogenicity to humans Biopersistent glass microfiber
	OSHA:	Suspected human carcinogen
	NTP:	Reasonably anticipated to be a human carcinogen
III]	HIVAL® PS HI 5308M	
	Acute oral toxicity:	The substance or mixture has no acute oral toxicity
	Acute Inhalation toxicity:	The substance or mixture has no acute inhalation toxicity
	Acute dermal toxicity:	The substance or mixture has no acute dermal toxicity
	Serious eye damage/irritation:	No eye irritation
	Respiratory or skin sensitization:	Does not cause respiratory or skin sensitization
	Germ cell mutagenicity:	Classification not possible
	Carcinogenicity:	Not classifiable as a human carcinogen
	Reproductive toxicity:	No toxicity to reproduction
	Specific Target Organ Toxicity	
	-single exposure:	No data available
	-repeated exposure	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Fresh Water Algae	No data available
Freshwater Fish	LC50: > 500 mg/L, 96h static (Brachydanio rerio)
Microtox	No data available
Water Flea	EC50: 29 mg/L/24h
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
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.