**SECTION 1: IDENTIFICATION**

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

**Product Name:** Hydrazine (HZ), Monomethyl hydrazine (MMH), Unsymmetrical Dimethylhydrazine (UDMH), or Formaldehyde Sensor.

**Company:** Interscan Corporation  
4590 Ish Dr., #110  
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**

- **H302** Harmful if swallowed.
- **H314** Causes severe skin burns and eye damage.
- **H351** Suspected of causing cancer

**Precautionary statement(s)**

| P260 | Do not breathe dust or mist. |
| P264 | Wash skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P301 + P312 | 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. |
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS NUMBER</th>
<th>% (WEIGHT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caesium Hydroxide Monohydrate</td>
<td>35103-79-8</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Biopersistent glass microfiber</td>
<td>Not Assigned</td>
<td>&lt;33%</td>
</tr>
<tr>
<td>HIVAL® PS HI 5308M</td>
<td>Not Assigned</td>
<td>&lt;38%</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST-AID MEASURES

Electrolyte (liquid) contact with skin
- 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 water spray, alcohol resistant foam, dry chemical.

Special protective equipment for Firefighters
- Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products
- Carbon Oxides

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 acid 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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biopersistent glass microfiber</td>
<td>Not Assigned</td>
<td>TWA</td>
<td>1 fibre/cm³</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Nuisance dust</td>
<td>Not Assigned</td>
<td>TWA (Total particulate)</td>
<td>15 mg/m³</td>
<td>OSHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable fraction)</td>
<td>5 mg/m³</td>
<td>OSHA</td>
</tr>
</tbody>
</table>

Caesium Hydroxide Components workplace control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caesium hydroxide monohydrate</td>
<td>35103-79-8</td>
<td>TWA</td>
<td>2.000000 mg/m³</td>
<td>USA. ACGIH Threshold Limit Values (TLV)</td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
<td></td>
<td>Upper Respiratory Tract irritation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye irritation</td>
<td>USA. ACGIH Threshold Limit Values (TLV)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin irritation</td>
<td>USA. ACGIH Threshold Limit Values (TLV)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>USA. ACGIH Threshold Limit Values (TLV)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Upper Respiratory Tract irritation</td>
<td>USA. NIOSH Recommended Exposure Limits</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye irritation</td>
<td>USA. NIOSH Recommended Exposure Limits</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin irritation</td>
<td>USA. NIOSH Recommended Exposure Limits</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>2.000000 mg/m³</td>
<td>California permissible exposure limits for chemical contaminants (Title 8, Article 107)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PEL</td>
<td>2 mg/m³</td>
<td>California permissible exposure limits for chemical contaminants (Title 8, Article 107)</td>
</tr>
</tbody>
</table>

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical Properties:

I)] **Caesium Hydroxide**
   a) Appearance Form: powder
   Color: white
   b) Odor Odor: No data available
   c) Odor Threshold Odor Threshold: No data available
   d) pH pH: 14 at 500 g/L at 20°C (68°F)
   e) Melting Point/freezing Melting Point: 272°C (522°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 No data available
flammmability or
explosive limits

k) Vapor Pressure No data available

l) Vapor density No data available

m) Relative density 3.68 g/ml at 25 °C (77°F)

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

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

Flash Point Not applicable

h) Evaporation rate No data available

i) Flammability (solid, gas) No data available

j) Upper/lower No data available
flammmability or
explosive limits

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

r) Viscosity

s) Explosive properties

t) Oxidizing properties

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] Caesium Hydroxide

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available
Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Cesium/cesium oxides

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] Caesium Hydroxide

Acute toxicity: LD50 Oral - Rat - 570 mg/kg
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation: Skin - Rabbit
Result: Skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - Rabbit
Result: Severe eye irritation - 5 min

Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available
Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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.
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.
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.

Reproductive toxicity: No data available
Specific target organ toxicity
- single exposure: No data available
- repeated exposure: No data available
Aspiration hazard: No data available
Additional Information:
RTECS: Not available
Cough, Shortness of breath, Headache, Nausea, Vomiting

Biopersistent glass microfiber

IARC Group 3: Not classifiable as to its carcinogenicity to humans
OSHA: Biopersistent glass microfiber
Suspected human carcinogen
NTP: Reasonably anticipated to be a human carcinogen

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 No data available
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 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).

Massachusetts Right To Know Components
Caesium hydroxide monohydrate
CAS-No. 35103-79-8
Revision Date 1994-04-01

Pennsylvania Right To Know Components
Caesium hydroxide monohydrate
CAS-No. 35103-79-8
Revision Date 1994-04-01

New Jersey Right To Know Components
Caesium hydroxide monohydrate
CAS-No. 35103-79-8
Revision Date 1994-04-01

California Prop. 65 Components
Glass wool fibers (inhalable and biopersistent)
CERCLA Reportable Quantity
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.