

# Hydrazine, Formaldehyde SDS

## SECTION 1: IDENTIFICATION

**Revision Date:** 06/13/2017

**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



### 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

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.

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)  |
|--------------------------------|--------------|-------------|
| Caesium Hydroxide Monohydrate  | 35103-79-8   | Proprietary |
| Biopersistent glass microfiber | Not Assigned | <33%        |
| HIVAL® PS HI 5308M             | Not Assigned | <38%        |
|                                |              |             |

### 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

| Components                     | CAS-No.      | Value type<br>(Form of exposure) | Control parameters /<br>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  |

### Caesium Hydroxide Components workplace control parameters

| Component                     | CAS-No.    | Value   | Control parameters         | Basis   |
|-------------------------------|------------|---|----------------------------|---|
| Caesium hydroxide monohydrate | 35103-79-8 | TWA   | 2.000000 mg/m <sup>3</sup> | USA. ACGIH Threshold Limit Values (TLV)   |
|                               | Remarks    | Upper Respiratory Tract irritation<br>Eye irritation<br>Skin irritation |                            |   |
|                               |            | TWA   | 2 mg/m <sup>3</sup>        | USA. ACGIH Threshold Limit Values (TLV)   |
|                               |            | Upper Respiratory Tract irritation<br>Eye irritation<br>Skin irritation |                            |   |
|                               |            | TWA   | 2.000000 mg/m <sup>3</sup> | USA. NIOSH Recommended Exposure Limits  |
|                               |            | PEL   | 2 mg/m <sup>3</sup>        | California permissible exposure limits for chemical contaminants (Title 8, Article 107) |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical Properties:

#### I] Caesium Hydroxide

- |    |                        |                              |
|----|------------------------|------------------------------|
| a) | Appearance             | Form: powder<br>Color: white |
| b) | Odor                   | No data available            |
| c) | Odor Threshold         | No data available            |
| d) | pH                     | 14 at 500 g/L at 20°C (68°F) |
| e) | Melting Point/freezing | Melting Point: 272°C (522°F) |

point

|    |  |                           |
|----|--|---------------------------|
| 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<br>flammability or<br>explosive limits | No data available         |
| 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-<br>octanol/water         | No data available         |
| p) | Auto-ignition<br>temperature                       | No data available         |
| q) | Decomposition<br>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<br>Color: white |
| b) | Odor   | odorless                    |
| c) | Odor Threshold                                     | No data available           |
| d) | pH   | No data available           |
| e) | Melting Point/freezing<br>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<br>flammability or<br>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-<br>octanol/water         | No data available           |
| p) | Auto-ignition                                      | No data available           |

|    |                           |                   |
|----|---------------------------|-------------------|
|    | temperature               |                   |
| 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<br>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   |
| <b>II] Biopersistent glass microfiber</b> |   |
| 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.<br>No hazards to be specially mentioned. |
| Conditions to avoid :                     | No data available   |
| <b>III] HIVAL® PS HI 5308M</b>            |   |
| 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

|   |  |
|---|--|
| <b>I] Caesium Hydroxide</b>               |  |
| <b>Acute toxicity:</b>                    | LD50 Oral - Rat - 570 mg/kg<br>Inhalation: No data available<br>Dermal: No data available  |
| <b>Skin corrosion/irritation:</b>         | Skin - Rabbit<br>Result: Skin irritation - 24 h  |
| <b>Serious eye damage/eye irritation:</b> | Eyes - Rabbit<br>Result: Severe eye irritation - 5 min   |
| <b>Respiratory or skin sensitization:</b> | No data available  |
| <b>Germ cell mutagenicity:</b>            | No data available  |
| <b>Carcinogenicity:</b>                   |  |
| <i>IARC:</i>                              | 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.<br>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. |
| <i>ACGIH:</i>                             | 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.   |
| <i>NTP:</i>                               | 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.<br>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.                                 |

|  |  |
|--|--|
| <i>OSHA:</i>   | 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.<br>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. |
| <b>Reproductive toxicity:</b>                              | No data available  |
| <b>Specific target organ toxicity - single exposure:</b>   | No data available  |
| <b>Specific target organ toxicity - repeated exposure:</b> | No data available  |
| <b>Aspiration hazard:</b>                                  | No data available  |
| <b>Additional Information</b>                              |  |
| <b>RTECS:</b>  | Not available<br>Cough, Shortness of breath, Headache, Nausea, Vomiting  |
| <b>II] Biopersistent glass microfiber</b>                  |  |
| <b>IARC Group 3:</b>                                       | Not classifiable as to its carcinogenicity to humans<br>Biopersistent glass microfiber   |
| <b>OSHA:</b>   | Suspected human carcinogen   |
| <b>NTP:</b>  | Reasonably anticipated to be a human carcinogen  |
| <b>III] 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  |

## SECTION 12: ECOLOGICAL INFORMATION

|   |  |
|---|--|
| <b>Ecotoxicity</b>                        | No data available  |
| <b>Persistence and degradability</b>      | No data available  |
| <b>Bioaccumulative potential</b>          | No data available  |
| <b>Mobility in soil</b>                   | No data available  |
| <b>Results of PBT and vPvB assessment</b> | PBT/vPvB assessment not available as chemical safety assessment not required/not conducted |
| <b>Other adverse effects</b>              | 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.



**DSL:**

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.