

# Material Safety Data Sheet

FOR INDUSTRIAL USE ONLY

WF132 MNL

## 1. Product and company identification

|   |   |
|---|---|
| <b>Product name</b>                     | WF132 MNL   |
| <b>MSDS Number</b>                      | 300000016102  |
| <b>Product Type</b>                     | Cleaning and Degassing  |
| <b>Product use</b>                      | Drossing Flux   |
| <b>Manufacturer, Importer, Supplier</b> | HA International, LLC<br>630 Oakmont Lane<br>Westmont, IL<br>60559  |
| <b>Print date</b>                       | 10-AUG-2010   |
| <b>Telephone</b>                        | <b>For Emergency Medical Assistance</b><br>Call Health & Safety Information Services, 1-866-303-6949<br><br><b>For Emergency Transportation Information</b><br>CHEMTREC US Domestic (800) 424-9300<br>CHEMTREC International (703) 527-3887<br>CANUTEC CA Domestic (613) 996-6666 |

For additional health and safety or regulatory information, call (630)575-5722, or (630)575-5705.

## 2. Hazards identification

|                           |  |
|---------------------------|--|
| <b>Form</b>               | Crystalline solid.   |
| <b>Odor</b>               | none.  |
| <b>OSHA/HCS status</b>    | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  |
| <b>Emergency overview</b> | <b>WARNING !</b><br>DAMP MATERIAL MAY PRESENT AN EXPLOSION HAZARD WHEN ADDED TO MOLTEN METAL. NEVER ADD DAMP MATERIAL TO MOLTEN METAL. TOXIC IF SWALLOWED. INHALATION CAUSES HEADACHES, DIZZINESS, DROWSINESS AND NAUSEA AND MAY LEAD TO UNCONSCIOUSNESS. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. |

### Potential acute health effects

|                   |  |
|-------------------|--|
| <b>Inhalation</b> | Can cause central nervous system (CNS) depression. Irritating to respiratory system. |
| <b>Ingestion</b>  | Toxic if swallowed. Can cause central nervous system (CNS) depression.               |
| <b>Skin</b>       | Irritating to skin.  |
| <b>Eyes</b>       | Irritating to eyes.  |

### **Potential chronic health effects**

#### **Chronic effects**

Contains material that can cause target organ damage. Can cause abnormal hardening of bone. Can cause fibrotic lung disease.

Inhalation of silica dust may cause delayed lung injury or lung fibrosis (including silicosis and/or pneumoconiosis) and/or other diseases which may lead to permanent disability and/or death. Silicosis is a form of disabling pulmonary fibrosis which can be progressive. Prolonged exposure to respirable silica may cause diminished lung capacity with shortness of breath during physical exertion and may cause fatigue, breathlessness, wheezing, cough, and sputum production. Preexisting respiratory disorders may be aggravated by exposure. Smoking may aggravate the effects of exposure and may increase the risk of developing respiratory disease from exposure. Consult with your employer and your doctor for further information or if you believe you may be developing any breathing or lung problems. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease. Silicosis is also reported to increase the risk of tuberculosis. Some studies show an increased incidence in chronic bronchitis and emphysema in workers exposed to respirable crystalline silica.

#### **Carcinogenicity**

Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

#### **Mutagenicity**

No known significant effects or critical hazards.

#### **Teratogenicity**

Contains material which may cause birth defects, based on animal data.

#### **Developmental effects**

No known significant effects or critical hazards.

#### **Fertility effects**

No known significant effects or critical hazards.

#### **Target organs**

Contains material which causes damage to the following organs: kidneys, lungs, upper respiratory tract, immune system, skin, bones eye, lens or cornea Review Section 2 and 11 for any additional assessments.

### **Over-exposure signs/symptoms**

#### **Inhalation**

Adverse symptoms may include the following: nausea or vomiting, respiratory tract irritation, coughing, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness,

#### **Ingestion**

Adverse symptoms may include the following: nausea or vomiting, dizziness/vertigo, drowsiness/fatigue, headache, unconsciousness,

#### **Skin**

Adverse symptoms may include the following: irritation, redness,

#### **Eyes**

Adverse symptoms may include the following: pain or irritation, watering, redness,

#### **Medical conditions aggravated by over-exposure**

Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See section 11 for more detailed information on health effects and symptoms.

## **3. Composition/Information on ingredients**

| <b><u>Ingredient name</u></b>                       | <b><u>CAS number</u></b> | <b><u>WT %</u></b> |
|---|--------------------------|--------------------|
| Potassium Chloride                                  | 7447-40-7                | 30.0 - 50.0        |
| Quartz (SiO <sub>2</sub> )                          | 14808-60-7               | 10.0 - 30.0        |
| Sodium Hexafluorosilicate                           | 16893-85-9               | 1.0 - 5.0          |
| Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> )   | 7757-82-6                | 1.0 - 5.0          |
| Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> ) | 497-19-8                 | 1.0 - 5.0          |

\*\* Any applicable Canadian trade secret numbers will be listed in Section 15.

## 4. First aid measures

|  |   |
|--|---|
| <b>Eye contact</b>                       | Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.  |
| <b>Skin contact</b>                      | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.   |
| <b>Inhalation</b>                        | Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. |
| <b>Ingestion</b>                         | Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.  |
| <b>Protection of first aid personnel</b> | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. If it is suspected that dust, vapor, mist or gas are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.  |
| <b>Notes to physician</b>                | Individuals reporting respiratory irritation following use should be assessed for potential minor exposure to HF and/or chlorine and treated accordingly. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  |

See section 11 for more detailed information on health effects and symptoms.

## 5. Fire-fighting measures

|                                    |   |
|------------------------------------|---|
| <b>Flammability of the product</b> | This product is not flammable per OSHA definitions.                     |
| <b><u>Extinguishing media</u></b>  |   |
| <b>Suitable</b>                    | Use an extinguishing agent suitable for the surrounding fire.           |
| <b>Not suitable</b>                | None known.   |
| <b>Special exposure hazards</b>    | Promptly isolate the scene by removing all persons from the vicinity of |

the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Hazardous combustion products**

Decomposition products may include the following materials: halogenated compounds, metal oxide/oxides, carbon monoxide, carbon dioxide, fluorine compounds (HF and fluorine), hydrochloric acid vapor, chlorine gas, irritating and toxic fumes and gasses .

**Special protective equipment for fire-fighters**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

**Personal precautions**

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8). Do not breathe dust, vapor, mist or gas.

**Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Large spill**

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Do not reuse spilled material. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

**Small spill**

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Do not reuse spilled material.

## 7. Handling and storage

**Handling**

Material should be free-flowing. Do not use damp or clumpy material. Addition of damp or clumpy material to molten metal may present and explosion hazard.  
Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Do not breathe dust, vapor, mist or gas.

**Storage**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area,

away from incompatible materials (see section 10) and food and drink. Store material in tightly closed or sealed containers. Use opened material immediately. Product may absorb moisture from the air. Immediately dispose of any material that is damp or clumpy. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Product may absorb moisture from the air. Immediately dispose of any material that is damp or clumpy.

## 8. Exposure controls/personal protection

| <u>Ingredient name</u>                            | <u>Occupational exposure limits</u>   |
|---|---|
| Quartz (SiO <sub>2</sub> )                        | <p><b>ACGIH TLV 8-hr TWA</b><br/>0.025 mg/m<sup>3</sup><br/>(respirable fraction)</p> <p><b>OSHA PEL Z3 8-hr TWA</b><br/>10 mg/m<sup>3</sup><br/>(divided by %SiO<sub>2</sub>+2 , respirable)</p> <p><b>OSHA PEL Z3 8-hr TWA</b><br/>30 mg/m<sup>3</sup><br/>(divided by %SiO<sub>2</sub>+2 , total dust)</p> |
| Sodium Hexafluorosilicate                         | <p><b>ACGIH TLV 8-hr TWA</b><br/>2.5 mg/m<sup>3</sup></p> <p><b>OSHA PEL 8-hr TWA</b><br/>2.5 mg/m<sup>3</sup></p> <p><b>OSHA PEL Z2 8-hr TWA</b><br/>2.5 mg/m<sup>3</sup><br/>(dust)</p>   |
| Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> ) | <p><b>ACGIH TLV 8-hr TWA</b><br/>10 mg/m<sup>3</sup><br/>(inhalable , Particles (Insoluble or Poorly Soluble) Not Otherwise Specified)</p> <p><b>OSHA PEL 8-hr TWA</b><br/>5 mg/m<sup>3</sup><br/>(respirable particulate)</p> <p><b>OSHA PEL 8-hr TWA</b><br/>15 mg/m<sup>3</sup><br/>(total dust)</p>       |
| Chlorine  | <p><b>ACGIH TLV 8-hr TWA</b><br/>1.5 mg/m<sup>3</sup> 0.5 ppm</p> <p><b>ACGIH TLV STEL (15 min)</b><br/>2.9 mg/m<sup>3</sup> 1 ppm</p> <p><b>OSHA PEL Ceiling</b><br/>3 mg/m<sup>3</sup> 1 ppm</p>  |
| Hydrofluoric Acid                                 |   |

**ACGIH TLV 8-hr TWA**

0.5 ppm

**ACGIH TLV Ceiling**

2 ppm

**OSHA PEL 8-hr TWA**

2.5 mg/m<sup>3</sup>

**OSHA PEL Z2 8-hr TWA**

3 ppm

**Consult local authorities for acceptable exposure limits.**

|  |   |
|--|---|
| <b>Recommended monitoring procedures</b> | Review ASTM E 1132-99, "Standard Practice for Health Requirements Relating to Occupational Exposure to Respirable Crystalline Silica," as well as other guidelines such as NIOSH publications.  |
| <b>Engineering measures</b>              | Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.   |
| <b>Hygiene measures</b>                  | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.   |
| <b>Respiratory</b>                       | Follow all facility requirements when working near molten metal. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. When this material is added to molten metal in normal use, the following hazardous vapors may be generated: chlorine gas, hydrochloric acid vapor, HF and fluorine gas |
| <b>Hands</b>                             | Follow all facility requirements when working near molten metal. Neoprene, nitrile, or natural rubber gloves are appropriate when handling material away from metal pouring or mixing area.   |
| <b>Eyes</b>                              | Follow all facility requirements when working near molten metal. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.   |
| <b>Skin</b>                              | Follow all facility requirements when working near molten metal. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| <b>Environmental exposure controls</b>   | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental   |

protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

|                   |                               |
|-------------------|-------------------------------|
| <b>Form</b>       | Crystalline solid.            |
| <b>Color</b>      | White                         |
| <b>Odor</b>       | none.                         |
| <b>Solubility</b> | Soluble                       |
| <b>Density</b>    | 2.0 g/cm <sup>3</sup> Approx. |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Stability</b>                        | The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.   |
| <b>Conditions to avoid</b>              | Product may absorb moisture from the air. Damp material may present an explosion hazard when added to molten metal.   |
| <b>Materials to avoid</b>               | Reactive or incompatible with the following materials: strong oxidizing agents, alkalis, iron,  |
| <b>Hazardous decomposition products</b> | Decomposition products may include the following materials: carbon monoxide, carbon dioxide, chlorine gas, hydrochloric acid vapor, fluorine compounds (HF and fluorine), and other toxic or irritating vapors and gases. |

## 11. Toxicological information

### Acute toxicity

#### Ingredient name

|   |                 |            |              |
|---|-----------------|------------|--------------|
| Potassium Chloride                                  | LD50 Oral       | Rat        | 2,600 mg/kg  |
| Sodium Hexafluorosilicate                           | LD50 Oral       | Rat        | 125 mg/kg    |
| Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> )   | LD50 Oral       | Mouse      | 5,989 mg/kg  |
| Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> ) | LD50 Oral       | Rat        | 4,090 mg/kg  |
|   | LD50 Oral       | Mouse      | 6,600 mg/kg  |
|   | LC50 Inhalation | Rat        | 2.3 mg/l/2 h |
|   | LC50 Inhalation | Mouse      | 1.2 mg/l/2 h |
|   | LC50 Inhalation | Guinea pig | 0.8 mg/l/2 h |

### Other Toxicological Information

#### Carcinogenicity

##### Classification

##### Ingredient name

Potassium Chloride

|       |                |
|-------|----------------|
| ACGIH | Not classified |
| IARC  | Not classified |
| NTP   | Not listed     |
| OSHA  | Not regulated  |
| EU    | Not classified |

Quartz (SiO<sub>2</sub>)

|       |  |
|-------|--|
| ACGIH | Suspected human carcinogen.                              |
| IARC  | The agent (mixture) is carcinogenic to humans. (Group 1) |

|   |       |  |
|---|-------|--|
|   | NTP   | Known to be a human carcinogen.                                |
|   | OSHA  | Not regulated  |
|   | EU    | Not classified   |
| Sodium Hexafluorosilicate                           | ACGIH | Not classifiable as to its carcinogenicity to humans.          |
|   | IARC  | IARC Group 3, not classifiable as to carcinogenicity to humans |
|   | NTP   | Not listed   |
|   | OSHA  | Not regulated  |
|   | EU    | Not classified   |
| Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> )   | ACGIH | Not classified   |
|   | IARC  | Not classified   |
|   | NTP   | Not listed   |
|   | OSHA  | Not regulated  |
|   | EU    | Not classified   |
| Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> ) | ACGIH | Not classified   |
|   | IARC  | Not classified   |
|   | NTP   | Not listed   |
|   | OSHA  | Not regulated  |
|   | EU    | Not classified   |

## 12. Ecological information

### Environmental effects

No known significant effects or critical hazards.

### Aquatic ecotoxicity

#### Ingredient name

Potassium Chloride

|   |             |                            |                |
|---|-------------|----------------------------|----------------|
|   | Fresh water | Acute LC50 951 mg/l/96 h   | Bluegill       |
|   | Fresh water | Acute LC50 880 mg/l/96 h   | Fathead minnow |
| Sodium Hexafluorosilicate                           |             |                            |                |
|   | Fresh water | Acute LC50 49 mg/l/4 d     | Bluegill       |
| Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> )   |             |                            |                |
|   | Fresh water | Acute LC50 3,040 mg/l/96 h | Bluegill       |
|   | Fresh water | Acute LC50 7,960 mg/l/96 h | Fathead minnow |
| Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> ) |             |                            |                |
|   | Fresh water | Acute LC50 < 850 mg/l/96 h | Fathead minnow |

### Other adverse effects

No known significant effects or critical hazards.

## 13. Disposal considerations

### Waste disposal

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14. Transport information

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

### International transport regulations

| Regulatory information | UN/NA number | Proper shipping name | Classes/*PG | Reportable Quantity (RQ) |
|------------------------|--------------|----------------------|-------------|--------------------------|
| CFR                    |              | Non-regulated        |             |                          |
| TDG                    |              | Non-regulated        |             |                          |
| IMO/IMDG               |              | Non-regulated        |             |                          |
| IATA (Cargo)           |              | Non-regulated        |             |                          |

\*PG : Packing group

## 15. Regulatory information

### US regulations

**HCS Classification** Toxic material, Irritating material, Carcinogen, Target organ effects

### U.S. Federal regulations

**SARA 311/312 Classification** Immediate (acute) health hazard, Delayed (chronic) health hazard

#### **SARA 313 - Supplier Notification**

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.  
None required.

**SARA 302 Extremely Hazardous Substances** None required.

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants** None required.

### State regulations

**Massachusetts RTK Substances** The following components are listed: Sodium Chloride, Quartz (SiO<sub>2</sub>), Sodium Hexafluorosilicate, Sodium Sulfate (Na<sub>2</sub>SO<sub>4</sub>),

**New Jersey RTK Hazardous Substances** The following components are listed: Sodium Hexafluorosilicate, Quartz (SiO<sub>2</sub>),

**Pennsylvania RTK Hazardous Substances** The following components are listed: Sodium Sulfate (Na<sub>2</sub>SO<sub>4</sub>), Quartz (SiO<sub>2</sub>), Sodium Chloride,

**California Prop. 65:** WARNING: This product contains a chemical known to the State of California to cause cancer. Quartz (SiO<sub>2</sub>) - 14808-60-7,

### Canada

#### **WHMIS (Canada)**

Class D-1B: Material causing immediate and serious toxic effects (Toxic).  
Class D-2A: Material causing other toxic effects (Very toxic).  
Class D-2B: Material causing other toxic effects (Toxic).  
Class E: Corrosive material

#### **Canadian lists**

**Canadian NPRI:** None required.

### International regulations

#### **Chemical inventories**

Australia inventory (AICS) All components are listed or exempted.  
Canada inventory All components are listed or exempted.  
Europe inventory All components are listed or exempted.  
Japan inventory All components are listed or exempted.  
China inventory (IECSC) All components are listed or exempted.  
Korea inventory All components are listed or exempted.  
New Zealand Inventory (NZIoC) Not determined.

Philippines inventory (PICCS) All components are listed or exempted.  
United States inventory (TSCA 8b) All components are listed or exempted.

## 16. Other information

|   |  |
|---|--|
| <b>Hazardous Material Information System III (U.S.A.)</b> | Health : 2<br>Flammability: 0<br>Physical hazards : 0<br>Chronic : * |
|---|--|

Caution: HMIS<sup>®</sup> ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS<sup>®</sup> ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS<sup>®</sup> ratings are to be used with a fully implemented HMIS<sup>®</sup> program. HMIS<sup>®</sup> is a registered mark of the National Paint & Coatings Association (NPCA). HMIS<sup>®</sup> materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

|                         |  |
|-------------------------|--|
| <b>Prepared by</b>      | Product Safety & Compliance Group, (630)575-5722, or (630)575-5705 |
| <b>Date of issue</b>    | 09-AUG-2010  |
| <b>Date of printing</b> | 10-AUG-2010  |
| <b>Version</b>          | 3.0  |

### Notice to reader

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