# X1166A Dry Flux

## Safety Data Sheet

### according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Date of issue:** 01/10/2018  
**Version:** 2.0

## SECTION 1: Identification

### 1.1. Identification

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade name</td>
<td>X1166A Dry Flux</td>
</tr>
<tr>
<td>Product code</td>
<td>A00000914</td>
</tr>
</tbody>
</table>

### 1.2. Recommended use and restrictions on use

No additional information available

### 1.3. Supplier

Lucas-Milhaupt, Inc.  
5656 South Pennsylvania Ave.  
Cudahy, WI 53110 - USA  
T (414)-769-6000  
LM_SDSinfo@lucasmilhaupt.com - www.Lucasmilhaupt.com

### 1.4. Emergency telephone number

Emergency number: CHEMTREC within the USA and Canada: 1-800-424-9300  
CHEMTREC outside the USA and Canada +1 701-741-5970

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS US classification**

- **Acute toxicity (oral), Category 4**  
  H302 - Harmful if swallowed.
- **Reproductive toxicity, Category 2**  
  H361 - Suspected of damaging fertility or the unborn child.

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

#### GHS US labelling

- **Signal word (GHS US):** Warning
- **Hazard pictograms (GHS US):**
  - !
  - 🔄
- **Hazard statements (GHS US):**
  - H302 - Harmful if swallowed.
  - H361 - Suspected of damaging fertility or the unborn child.
- **Precautionary statements (GHS US):**
  - P201 - Obtain special instructions before use.
  - P202 - Do not handle until all safety precautions have been read and understood.
  - P264 - Wash hands, forearms and face thoroughly after handling.
  - P270 - Do not eat, drink or smoke when using this product.
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
  - P301+P312 - If swallowed: Call a poison center/doctor if you feel unwell.
  - P308+P313 - If exposed or concerned: Get medical advice/attention.
  - P330 - Rinse mouth.
  - P405 - Store locked up.
  - P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Not applicable
**SECTION 4: First-aid measures**

4.1. **Description of first aid measures**

First-aid measures general: Call a physician immediately.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion: Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. **Most important symptoms and effects (acute and delayed)**

Symptoms/effects after skin contact: Burns.

Symptoms/effects after eye contact: Serious damage to eyes.

Symptoms/effects after ingestion: Burns.

4.3. **Immediate medical attention and special treatment, if necessary**

Treat symptomatically.

**SECTION 5: Fire-fighting measures**

5.1. **Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media: Dry powder. Water spray. Foam.

Unsuitable extinguishing media: Water.

5.2. **Specific hazards arising from the chemical**

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

5.3. **Special protective equipment and precautions for fire-fighters**

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

**SECTION 6: Accidental release measures**

6.1. **Personal precautions, protective equipment and emergency procedures**

6.1.1. **For non-emergency personnel**

Emergency procedures: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. **For emergency responders**

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.

6.2. **Environmental precautions**

Avoid release to the environment.

6.3. **Methods and material for containment and cleaning up**

Methods for cleaning up: Mechanically recover the product. Notify authorities if product enters sewers or public waters.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. **Reference to other sections**

For further information refer to section 13.

**SECTION 7: Handling and storage**

7.1. **Precautions for safe handling**

Precautions for safe handling: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Substance                                                      | Control parameters               |
|                                                               |                                   |
| Potassium fluoride (K(HF2)) (7789-29-9)                        | Not applicable                     |
| Carbonic acid, dipotassium salt (584-08-7)                     | Not applicable                     |

8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection: Protective gloves

Eye protection: Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: [In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Property                                                      | Value                        |
|                                                              |                              |
| Physical state                                               | Solid                        |
| Colour                                                       | No data available            |
| Odour                                                        | No data available            |
| Odour threshold                                              | No data available            |
| pH                                                           | No data available            |
| Melting point                                                | No data available            |
| Freezing point                                               | Not applicable               |
| Boiling point                                                | No data available            |
| Flash point                                                  | Not applicable               |
| Relative evaporation rate (butylacetate=1)                   | No data available            |
| Flammability (solid, gas)                                   | Non flammable.               |
| Vapour pressure                                              | No data available            |
| Relative vapour density at 20 °C                            | No data available            |
| Relative density                                             | Not applicable               |
| Solubility                                                   | No data available            |
| Log Pow                                                      | No data available            |
| Auto-ignition temperature                                   | Not applicable               |
| Decomposition temperature                                   | No data available            |
| Viscosity, kinematic                                        | No data available            |
| Viscosity, dynamic                                          | No data available            |
| Explosive limits                                             | Not applicable               |
Explosive properties : No data available
Oxidising properties : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral) : Oral: Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

ATE US (oral) 541.896 mg/kg bodyweight

Potassium fluoride (K(HF2)) (7789-29-9)
LD50 oral rat 160 mg/kg
ATE US (oral) 160 mg/kg bodyweight

Carbonic acid, dipotassium salt (584-08-7)
LD50 oral rat 1870 mg/kg
ATE US (oral) 1870 mg/kg bodyweight

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Before neutralisation, the product may represent a danger to aquatic organisms.
12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods
Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT
Not applicable

Transportation of Dangerous Goods
Not applicable

Transport by sea
Not applicable

Air transport
Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Potassium fluoride (K(HF2)) (7789-29-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Carbonic acid, dipotassium salt (584-08-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

Potassium fluoride (K(HF2)) (7789-29-9)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Carbonic acid, dipotassium salt (584-08-7)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations
Component | State or local regulations
--- | ---
Potassium fluoride (K(HF2))(7789-29-9) | U.S. - New Jersey - Right to Know Hazardous Substance List
Carbonic acid, dipotassium salt(584-08-7) | 

**SECTION 16: Other information**

Full text of H-statements:

| H302 | Harmful if swallowed. |
| H361 | Suspected of damaging fertility or the unborn child. |

SDS US (GHS HazCom 2012)

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

Lucas-Milhaupt, Inc.