

# SAFETY DATA SHEET

## 401 DEGASSER - TABLET

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 401 DEGASSER

CAS-No. : N/A

Recommended use(s) of the chemical and restrictions on use: Tablet for use in foundry industry for degassing and removal of Sodium and Calcium in Aluminum alloys

Supplier's details: Skyline Chemical Corp.  
P.O. Box 53663, Irvine, California 92619  
Tel +1-714-290-8866

Emergency phone number: CHEMTREC 1-800-424-9300 or +1-703-741-5500 (24 hour emergency response number)

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

##### Hazard statement(s)

|                 |  |
|-----------------|--|
| Aquatic Acute   | Acute aquatic toxicity                               |
| Aquatic Chronic | Chronic aquatic toxicity                             |
| Carcinogen      | Carcinogenicity                                      |
| Eye Irritant    | Eye irritation                                       |
| H315            | Causes skin irritation.                              |
| H319            | Causes serious eye irritation.                       |
| H335            | May cause respiratory irritation.                    |
| H351            | Suspected of causing cancer.                         |
| H400            | Very toxic to aquatic life.                          |
| H410            | Very toxic to aquatic life with long lasting effects |

#### 2.2 GHS Label elements

##### Hazard pictograms



Signal word      Warning

##### Precautionary statement(s):

|      |   |
|------|---|
| P201 | Obtain special instructions before use.                                   |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray.                          |
| P264 | Wash skin thoroughly after handling.                                      |
| P271 | Use only outdoors or in a well-ventilated area.                           |
| P273 | Avoid release to the environment.   |
| P280 | Wear protective gloves/ eye protection/ face protection.                  |

|                    |  |
|--------------------|--|
| P302 + P352        | IF ON SKIN: Wash with plenty of soap and water.  |
| 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. |
| P308 + P313        | If exposed or concerned: Get medical advice/ attention.  |
| P321               | Specific treatment (see supplemental first aid instructions on this label).  |
| P332 + P313        | If skin irritation occurs: Get medical advice/ attention.  |
| P337 + P313        | If eye irritation persists: Get medical advice/ attention.   |
| P362               | Take off contaminated clothing and wash before reuse.  |
| P391               | Collect spillage.  |
| P403 + P233        | Store in a well-ventilated place. Keep container tightly closed.   |
| P405               | Store locked up.   |
| P501               | Dispose of contents/container to an approved waste disposal plant.   |

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS:

#### **NFPA Rating**

|            |   |
|------------|---|
| Health     | 2 |
| Fire       | 0 |
| Reactivity | 0 |

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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### **Substances**

Component(s) : Hexachloroethane, Potassium Chloride, Sodium Chloride, Potassium Fluorosilicate

| <b><u>Ingredient</u></b> | <b><u>CAS #</u></b> | <b><u>Percent range</u></b> |
|--------------------------|---------------------|-----------------------------|
| Hexachloroethane         | 67-72-1             | 60-80%                      |
| Potassium Chloride       | 7447-40-7           | 10-20%                      |
| Sodium Chloride          | 7647-14-5           | 5-10%                       |
| Potassium Fluorosilicate | 16871-90-2          | 2-10%                       |

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## 4. FIRST-AID MEASURES

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### **4.1 Description of first aid measures**

**General advice:** Consult a physician. Provide this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### **4.2 Most important symptoms and effects, both acute and delayed:**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in Section 11.

### **4.3. Indication of any immediate medical attention and special treatment needed**

If medical advice is needed, have safety data sheet available.

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## 5. FIREFIGHTING MEASURES

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### **5.1 Extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **5.2 Special hazards arising from the substance or mixture**

Carbon oxides, Hydrogen chloride gas

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

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## 6. ACCIDENTAL RELEASE MEASURES

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### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into

The environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

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## 7. HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Use with adequate ventilation.

Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse. Immediately change contaminated clothing.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage area: Store away from heat.

Packaging: Keep container closed when not in use.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 Control parameters

#### Components with workplace control parameters

| Components       | CAS No. | Value  | Control Parameter | Basis                                   |
|------------------|---------|--|-------------------|---|
| Hexachloroethane | 67-72-1 | TWA  | 1 ppm             | USA. ACGIH Threshold limit values (TLV) |
|                  | Remark  | Liver & kidney damage<br>Confirmed animal carcinogen with unknown relevance to humans<br>Danger of cutaneous absorption. |                   |   |

|  |  |  |                             |  |
|--|--|--|-----------------------------|--|
|  |  | TWA  | 1ppm<br>10mg/m <sup>3</sup> | USA.NIOSH Recommended<br>Exposure Limited.   |
|  |  | Potential Occupational Carcinogen<br>See Appendix C<br>See Appendix A<br>Potential for dermal absorption |                             |  |
|  |  | TWA  | 1ppm<br>10mg/m <sup>3</sup> | USA. Occupational Exposure Limited. (OSHA) –Table Z-1<br>Limited for Air Contaminants. |
|  |  | Skin designation<br>The value in mg/ m <sup>3</sup> approximate.   |                             |  |
|  |  | TWA  | 1ppm<br>10mg/m <sup>3</sup> | USA. OSHA –TABLE Z-1 Limited for Air Contaminants -<br>1910.1000                       |
|  |  | Skin Notation  |                             |  |

| Components         | CAS No.   | Value | Control Parameter | Basis                  |
|--------------------|-----------|-------|-------------------|------------------------|
| Potassium Chloride | 7447-40-7 | TWA   | NA                | OSHA PEL/ACGIH TLV: NA |

| Components      | CAS No.   | Value | Control Parameter | Basis                  |
|-----------------|-----------|-------|-------------------|------------------------|
| Sodium Chloride | 7647-14-5 | TWA   | NA                | OSHA PEL/ACGIH TLV: NA |

| Components               | CAS No.    | Value        | Control Parameter    | Basis                            |
|--------------------------|------------|--------------|----------------------|----------------------------------|
| Potassium Fluorosilicate | 16871-90-2 | ACGIH<br>TLV | 2.5mg/m <sup>3</sup> | OSHA PEL/: 2.5 mg/m <sup>3</sup> |

## 8.2 Exposure controls

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

**Eye/face protection:** Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls if the respirator is the sole means of protection use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environmental exposure controls:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Information on physical and chemical properties

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|-------------------------------|---|
| • Appearance                  | Form: Tablet<br>Color: White            |
| • Odor                        | Typical camphor                         |
| • Odor threshold              | No data available                       |
| • pH                          | No data available                       |
| • Melting point               | No data available                       |
| • Initial boiling point/range | No data available                       |
| • Flash point                 | No data available                       |
| • Evaporation rate            | No data available                       |
| • Flammability (solid, gas)   | No data available                       |
| • Vapor pressure              | 0.5 hPa (0.4 mmHg) at 20.0 °C (68.0 °F) |
| • Vapor density               | No data available                       |
| • Relative density            | 2.111 g/mL at 25 °C (77 °F)             |
| • Water solubility            | Partly soluble                          |
| • Auto-ignition               | No data available                       |
| • Decomposition               | No data available                       |
| • Viscosity                   | No data available                       |
| • Explosive properties        | No data available                       |
| • Oxidizing properties        | No data available                       |

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## 10. STABILITY AND REACTIVITY

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10.1 Reactivity: No data available

10.2 Chemical stability: Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: No data available

10.4 Conditions to avoid: No data available

10.5 Incompatible materials: Strong oxidizing agents, strong bases

10.6 Hazardous decomposition products: CO, CO<sub>2</sub>, hydrogen chloride gas & phosgene gas

In the event of fire: see section 5

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## 11. TOXICOLOGICAL INFORMATION

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### Information on toxicological effects

#### Acute toxicity

LD50 Oral - guinea pig - 4,970 mg/kg

TDLo Oral - rat - female - 5,500 mg/kg

TDLo Oral - rat - 6,944 mg/kg

**Remarks:** Liver:Changes in liver weight. Kidney, Ureter, Bladder:Changes in tubules (including Acute renal failure, acute tubular necrosis). Kidney, Ureter, Bladder:Other changes.

TDLo Oral - rat - 48,750 mg/kg

**Remarks:** Brain and Coverings:Other degenerative changes. Liver:Changes in liver weight. Kidney, Ureter, Bladder:Other changes.

TDLo Oral - rabbit - 12,000 mg/kg

**Remarks:** Liver:Other changes. Kidney, Ureter, Bladder:Other changes. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

Inhalation: Behavioral:Muscle weakness.

LD50 Dermal - rabbit - 32,000 mg/kg

LD50 Intraperitoneal - mouse - 4,500 mg/kg

LDLO Intraperitoneal - rat - 2,900 mg/kg

LDLO Intravenous - dog - 325 mg/kg

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

Hamster - ovary

Sister chromatid exchange

**Carcinogenicity**

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Hexachloroethane)

NTP: Reasonably anticipated to be a human carcinogen (Hexachloroethane)

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Aspiration hazard**

No data available

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## 12. ECOLOGICAL INFORMATION

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**Hexachloroethane**

**Toxicity**

Toxicity to fish NOEC - Cyprinodon variegatus (sheepshead minnow) - 1 mg/l - 96h

Toxicity to daphnia LC50 - Daphnia magna (Water flea) - 1.36 mg/l - 48 h

And other aquatic invertebrates

**Persistence and degradability**

Biodegradability Result: - Not biodegradable  
(OECD Test Guideline 301)

**Bioaccumulative potential**

Bioaccumulation Lepomis macrochirus (Bluegill) - 28 d  
- 0.00617 mg/l  
Bioconcentration factor (BCF): 139

**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**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.  
No additional information available

## Potassium Chloride

## Toxicity

EC50 Daphnia 1 825 mg/l

### Persistence and degradability

Not established

### Bioaccumulative potential

Not established

## Mobility in soil

No additional information available

### Other adverse effects

Avoid release to the environment.

## Sodium Chloride

## Toxicity

Routes of Entry: Inhalation, Ingestion.

Toxicity to Animals: The LC50 values here under are estimate on the basis of a 4-hour exposure.

Acute oral toxicity (LD50): 3000 mg/kg [Rat.].

Acute dermal toxicity (LD50): >10000 mg/kg [Rabbit].

Acute toxicity of the dust (LC50): >42000 mg/m3 1 hours [Rat].

Chronic Effects on Humans: **MUTAGENIC EFFECTS:** Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Lowest Published Lethal Dose (LDL)

[Man] - Route: Oral; Dose: 1000 mg/kg

## Potassium Fluorosilicate

## Toxicity

The acute lethal oral toxicity for rats is approximately 125 mg per kilogram of body weight. This is equivalent to approximately 6.5 grams for the average human (as Potassium Fluorosilicate). Chronic bony fluorosis is a very rare condition and is not expected to develop if exposures are maintained below mandated or recommended exposure limits.

### 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

## Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber.

### Contaminated packaging

Dispose of as unused product.

**Waste Disposal Method:** Waste disposal should be in accordance with existing federal, state and local environmental regulations.

## 14. TRANSPORT INFORMATION

### DOT Road Shipment Information

Not regulated for transport

EmS: Fire F-A Spill S-A

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**15. REGULATORY INFORMATION**

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Risk phases : R22 Harmful if swallowed.

Safety Phases : S22 Do not inhale dust.  
S24/25 Avoid contact with skin and eyes.

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**16. OTHER INFORMATION**

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The information provided above is believed to be accurate and represent the best and most recent information currently available to us. However we make no guarantee/warranty or implant ability or any other warranty, expressed or implied and we assume no liability resulting from its use, handling or contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. Information provided in this document is based on present knowledge available and is applicable to the product with regard to appropriate safety precautions. Information is not intended to be all inclusive and shall be used only as a guide or for reference. Skyline Chemical Corp shall not be held liable for any damage resulting from handling the above product.