

# SAFETY DATA SHEET



**FORCE  
INDUSTRIES  
DIVISION**

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

### Product identifier

**Product name:** Salbrick

### Other means of identification

**Product code:** 695

### Recommended use of the chemical and restrictions on use

**Recommended use:** Soldering Iron Cleaner

### Details of the supplier of the safety data sheet

**Manufacturer:** Force Industries Division.  
28 Industrial Blvd. Paoli, PA 19301.

### Emergency Telephone number

For hazardous material incidents only, call CHEMTREC Emergency Response Number:  
1-800-424-9300.

For all other inquiries about this product, call Force Industries Division at 610-647-3575.

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

Eye irritation (Category 2B)

Acute Toxicity Category 4 (Oral)

### 2.2 GHS Label elements, including precautionary statements

#### Emergency overview

**Appearance:** Pressed Cake Block

**Physical state:** Solid

**Odor:** None

**WARNING**



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## Hazard statement(s)

H302: Harmful if swallowed  
H320: Causes eye irritation

## Precautionary statement(s)

P202: Do not handle until all safety precautions have been read and understood.  
P264: Wash skin thoroughly after handling.  
P270: Do not eat, drink, or smoke while using this product.  
P273: Avoid release to the environment.  
P280: Wear eye protection/ face protection.  
P281: Use personal protective equipment as required.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301+P312+P330+P331: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell and rinse mouth.  
P337+P313: If eye irritation persists: Get medical advice/ attention.  
P501: Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS –none.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>EINECS No.</u>	<u>Weight %</u>
Ammonium Chloride	12125-02-9	235-186-4	99
Hydrogenated tallow alkyl amine acetate (anti-caking agent)	61790-59-8	263-149-2	0 - 1

Others, if any, are considered non-hazardous.

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

##### If inhaled

If breathed in, remove person to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. 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 if irritation develops.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if irritation persists.

**If swallowed**

Do not induce vomiting unless directed to do so by medical personnel. If person is alert, have them rinse their mouth with water. Get medical attention.

**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**

No immediate medical attention is required.

## SECTION 5: FIRE-FIGHTING MEASURES

**5.1 Extinguishing media**

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

**5.2 Specific hazards arising from the chemical**

This material is not combustible but will decompose under fire conditions.

When heated to decomposition, nitrogen oxide, hydrogen chloride gas, and ammonia gas will be produced.

**5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus and full protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Wear respiratory protection. 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**

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. Clean up residual material by washing with water.

**6.4 Reference to other sections**

For disposal see section 13.



## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with eyes. Avoid prolonged contact with skin and clothing. Provide appropriate exhaust ventilation at places where dust is formed. Wash thoroughly with soap and water after handling. For precautions see section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place. Store away from oxidizing agents and other incompatible materials.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Ammonium chloride	12125-02-9	TWA	10mg/m <sup>3</sup> (as fume)	ACGIH Threshold Limit Values (TLV)
Anti-caking agent	61790-59-8		No data available	

### 8.2 Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice.

#### Personal protective equipment

##### Eye/face protection

Safety glasses with side-shields. 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.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact



Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body Protection**

Wear protective clothing if needed to avoid skin contact and contamination of personal clothing.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face 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).

#### **Control of environmental exposure**

Discharge into the environment must be avoided.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Physical state:</b>	Solid pressed cake block
<b>Odor:</b>	None
<b>Color:</b>	White
<b>pH:</b>	4.3 – 5.5 (5% aqueous solution)
<b>Flash point:</b>	None
<b>Vapor pressure:</b>	N/A
<b>Vapor density:</b>	N/A
<b>Specific gravity:</b>	1.53
<b>Water solubility:</b>	Moderate
<b>Melting point:</b>	642° F. (399° C.)
<b>Decomposition Temp:</b>	968° F. (520° C.)
<b>Explosive Properties:</b>	None



## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Reacts to produce ammonia and hydrogen chloride.

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

Reacts with alkalis to release ammonia. Reacts with acids to release hydrogen chloride.

### 10.4 Conditions to avoid

Heating to decomposition may produce nitrogen oxides, hydrogen chloride, and ammonia gas.

### 10.5 Incompatible materials

Avoid strong oxidizing agents, alkalis, acids, and nitrates. Corrodes most metals at high temperature.

### 10.6 Hazardous decomposition products

Thermal decomposition may generate nitrogen oxides, hydrogen chloride, and ammonia gas.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Component toxicity

Components	LD50/Rabbit (Dermal)	LD50/Oral/Rat
Ammonium Chloride	>2000 mg/kg	1410 mg/kg

### Developmental/Reproductive toxicity

Rats were administered 1 ml/kg of a solution of ammonium chloride at 8.9 mg/kg by gavage on days 7 to 10 of gestation. Neither maternal toxicity nor developmental toxicity including teratogenicity was found.

### Skin corrosion/irritation

Ammonium chloride is not irritating to rabbit skin

### Serious eye damage/eye irritation

Ammonium chloride is irritating to rabbit eyes (fully reversible in 7 days).

### Respiratory or skin sensitization

Ammonium chloride did not cause sensitization in a guinea pig maximization test. There is no data available for respiratory sensitization. Ammonium chloride is not expected to be a respiratory sensitizer based on human experience.



### **Germ cell mutagenicity**

Ammonium chloride was negative in an invitro mammalian cell gene mutation assay and positive in an invitro mammalian chromosome aberration test without metabolic activation. Ammonium chloride was negative in an invitro chromosome aberration micronucleus assay.

### **Chronic Toxicity and 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.

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.

### **Carcinogenicity:**

Studies done on rats and mice with ammonium chloride were conducted for carcinogenicity or the potential for carcinogenicity by acidification of the urinary tract. The decrease in urine pH was observed, however the incidences of bladder tumor, hyperplasia and calculi were not increased. These studies showed negative results on carcinogenicity in rats and mice.

### **Specific target organ toxicity - single exposure**

No data available

### **Specific target organ toxicity - repeated exposure**

In an oral repeat dose study, rats were administered ammonium chloride in their feed at 684 mg/kg for 70 days. No treatment related effects were seen. The NOAEL for oral repeated dose toxicity is considered to be 684 mg/kg.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **12. ECOLOGICAL INFORMATION**

#### **12.1 Toxicity**

Toxicity to fish

LC50 – *Prosopium williamsoni* – 46.27 mg/l - 96 h

EC50 – *Daphnia Magna* – 136.6 mg/L – 48 h

EC50 – *Chlorella Vulgaris* – 1300 mg/L – 5 day (calculated)

#### **12.2 Persistence and degradability**

Biodegradation is not applicable for inorganic substances such as ammonium chloride.

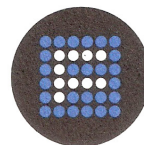
#### **12.3 Bio-accumulative potential**

Not expected to bio-accumulate.

#### **12.4 Mobility in soil**

No mobility in soil is expected. Ammonium chloride is highly soluble and disassociates into ammonia and chloride ions.

#### **12.6 Other adverse effects – None known**



## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### **Disposal Method**

This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation, and Recovery Act (RCRA), 40 CFR 261. Dry material may be landfilled or recycled in accordance with local, state, and federal regulations. Dispose of in accordance with local, state, and federal regulations.

**Empty Container:** No special handling or disposal is required.

## SECTION 14: TRANSPORT INFORMATION

### **U.S. Department of Transportation Ground (49CFR)**

Not regulated in packages weighing less than 5000 Lbs.

### **International Air Transportation (ICAO/IATA):**

Not regulated

### **International Maritime Organization (IMO/IMDG):**

Not regulated

## SECTION 15: REGULATORY INFORMATION

### **International Inventories**

**USA (TSCA):** Complies

**Canadian CEPA:** Complies

### **Federal Regulations**

### **SARA Title III 313 Reportable Substances**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **SARA Title III Section 311/312 Hazard Categories:**

Acute Health Hazard



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**CERCLA Section 103:** This product has a reportable quantity of 5000 Lbs. Release of more than 5000 Lbs. of this product in a 24-hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675). Report spills required under federal, state, and local regulations.

**California Proposition 65:** This product is not considered as a substance that causes cancer under Proposition 65.

**Canadian Regulations:**

**Canadian WHMIS:** Class D-2-B

This product has been classified in accordance with the hazard criteria in the CPR and the MSDS contains all the information required by the CPR.

## SECTION 16: OTHER INFORMATION

**Full text of H-Statements referred to under sections 2 and 3.**

H302: Harmful if swallowed

H320: Causes eye irritation

**HMIS:**

**Health:** 2\*

**Flammability:** 0

**Reactivity:** 0

**PREPARATION INFORMATION:** Technical Service Department,  
Force Industries Division

**REVISION DATE:** February 8, 2016

**SUPERCEDES:** July 3, 2007

**DISCLAIMER:** The data set forth in these sheets are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Force Industries makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereon. Force Industries warrants only that its products conform to their published specifications and no other express warranty is made with regards thereof. We do not guarantee favorable results, and we assume no liability in connection with the use of the products. They are intended for use by persons having technical skill and knowledge, at their own discretion and risk.