

# Safety Data Sheet



## 1. Identification

<b>Product Name:</b>	XIM QT 4PK ETCH-I-M	<b>Revision Date:</b>	8/10/2020
<b>Product Identifier:</b>	44082	<b>Supersedes Date:</b>	8/7/2020
<b>Recommended Use:</b>	Etch / Etching Cream		
<b>Supplier:</b>	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	<b>Manufacturer:</b>	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
<b>Preparer:</b>	Regulatory Department		
<b>Emergency Telephone:</b>	24 Hour Hotline: 847-367-7700		

## 2. Hazards Identification

### Classification

#### Symbol(s) of Product



#### Signal Word

Danger

### GHS HAZARD STATEMENTS

Acute Toxicity, Oral, category 4	H302	Harmful if swallowed.
Skin Corrosion, category 1B	H314	Causes severe skin burns and eye damage.

### GHS LABEL PRECAUTIONARY STATEMENTS

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep 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	If exposed immediately call a POISON CENTER or doctor/physician.
P321	For specific treatment see label.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local, regional and national regulations.

### GHS SDS PRECAUTIONARY STATEMENTS

P270  
P363Do not eat, drink or smoke when using this product.  
Wash contaminated clothing before reuse.

### 3. Composition / Information on Ingredients

#### HAZARDOUS SUBSTANCES

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt.% Range</u>	<u>GHS Symbols</u>	<u>GHS Statements</u>
Ammonium Bifluoride	1341-49-7	10-25	GHS05-GHS06	H301-314
Sodium Bifluoride	1333-83-1	2.5-10	GHS05-GHS06	H301-314
Dipropylene Glycol Monomethyl Ether	34590-94-8	2.5-10	Not Available	Not Available
Propylene Glycol Phenyl Ether	770-35-4	1.0-2.5	GHS06	H331
Alkanes, C11-15-iso	90622-58-5	0.1-1.0	GHS06	H330
Hydrochloric Acid	7647-01-0	0.1-1.0	GHS04-GHS05-GHS06	H280-301-314-331-335

### 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed. Remove contact lenses, if present and easy to do. Continue rinsing.

**FIRST AID - SKIN CONTACT:** Immediately flush skin with plenty of water for at least 15 minutes while removing clothing. Get medical attention immediately. Wash clothing separately before reuse.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** If swallowed, rinse mouth with water. If feeling unwell, get medical attention. Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention. If swallowed, do not induce vomiting. If victim is conscious and alert, give 2 to 4 cupfuls of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Treat symptomatically and supportively. Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

### 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Keep containers tightly closed. FLASH POINT IS TESTED TO BE GREATER THAN 200 DEGREES F. No unusual fire or explosion hazards noted.

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent buildup of steam. If water is used, fog nozzles are preferred. Containers can rupture and release highly toxic material if exposed to heat. Substance is non-combustible but reacts with many metals to form explosive hydrogen gas. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

**Special Fire and Explosion Hazard (Combustible Dust):** No Information

### 6. Accidental Release Measures

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Avoid runoff into sewers and waterways. Provide ventilation and approach spill from upwind using proper personal protective equipment as indicated in Section 8. Carefully neutralize spill with sodium bicarbonate (NaHCO<sub>3</sub>). Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

### 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Store in a dry, well ventilated place. Keep container tightly closed when not in use.

**Advice on Safe Handling of Combustible Dust:** No Information

## 8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Ammonium Bifluoride	1341-49-7	25.0	2.5 mg/m <sup>3</sup>	N.E.	2.5 mg/m <sup>3</sup>	N.E.
Sodium Bifluoride	1333-83-1	5.0	2.5 mg/m <sup>3</sup>	N.E.	2.5 mg/m <sup>3</sup>	N.E.
Dipropylene Glycol Monomethyl Ether	34590-94-8	5.0	100 ppm	150 ppm	100 ppm	N.E.
Propylene Glycol Phenyl Ether	770-35-4	5.0	N.E.	N.E.	N.E.	N.E.
Alkanes, C11-15-iso	90622-58-5	1.0	N.E.	N.E.	N.E.	N.E.
Hydrochloric Acid	7647-01-0	1.0	N.E.	N.E.	N.E.	5 ppm

### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**SKIN PROTECTION:** Use impervious gloves to prevent skin contact and absorption of this material through the skin.

**EYE PROTECTION:** Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

**Engineering Measures for Combustible Dust:** No Information

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Gel/Paste	<b>Physical State:</b>	Liquid
<b>Odor:</b>	Pungent	<b>Odor Threshold:</b>	N.E.
<b>Specific Gravity:</b>	1.069	<b>pH:</b>	2.1 - 3.9
<b>Freeze Point, °C:</b>	N.D.	<b>Viscosity:</b>	N.D.
<b>Solubility in Water:</b>	Water Reactive	<b>Partition Coefficient, n-octanol/ water:</b>	N.D.
<b>Decomposition Temp., °C:</b>	N.D.	<b>Explosive Limits, vol%:</b>	0.8 - 14.0
<b>Boiling Range, °C:</b>	100 - 537	<b>Flash Point, °C:</b>	94
<b>Flammability:</b>	Does not Support Combustion	<b>Auto-Ignition Temp., °C:</b>	N.D.
<b>Evaporation Rate:</b>	Slower than Ether	<b>Vapor Pressure:</b>	N.D.
<b>Vapor Density:</b>	Heavier than Air		

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

**Conditions to Avoid:** Avoid contact with metals. Avoid excess heat. Keep from freezing.

**Incompatibility:** Incompatible with strong oxidizing agents, strong acids and strong alkalis. Product slowly corrodes copper, aluminum, zinc, and galvanized surfaces.

**Hazardous Decomposition:** When heated to decomposition, it emits acrid smoke and irritating fumes. Decomposition produces hydrogen chloride, chlorine and hydrogen gases.

**Hazardous Polymerization:** Will not occur under normal conditions.

**Stability:** This product is stable under normal storage conditions.

## 11. Toxicological Information

**EFFECTS OF OVEREXPOSURE - EYE CONTACT:** Substance causes severe eye irritation. Injury may be permanent.

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** Severely irritating; may cause permanent skin damage.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Corrosive and may cause severe and permanent damage to mouth, throat and stomach. Substance may be harmful if swallowed.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** Repeated exposure to low concentrations of HCl vapor or mist may cause bleeding of nose and gums.

**PRIMARY ROUTE(S) OF ENTRY:** Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

### ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
1341-49-7	Ammonium Bifluoride	130 mg/kg Rat	N.E.	N.E.
1333-83-1	Sodium Bifluoride	80 mg/kg Rat	N.E.	N.E.
34590-94-8	Dipropylene Glycol Monomethyl Ether	5350 mg/kg Rat	9500 mg/kg Rabbit	>20 mg/L
770-35-4	Propylene Glycol Phenyl Ether	2830 mg/kg Rat	>2000 mg/kg Rabbit	>5.4 mg/L Rat
90622-58-5	Alkanes, C11-15-iso	>5000 mg/kg Rat	>3160 mg/kg Rabbit	N.E.
7647-01-0	Hydrochloric Acid	238 - 277 mg/kg Rat	>5010 mg/kg Rabbit	N.E.

N.E. - Not Established

## 12. Ecological Information

**ECOLOGICAL INFORMATION:** Product is a mixture of listed components. No ecotoxicity data was found for this product.

## 13. Disposal Information

**DISPOSAL INFORMATION:** Dispose of material in accordance to local, state, and federal regulations and ordinances.

## 14. Transport Information

	<u>Domestic (USDOT)</u>	<u>International (IMDG)</u>	<u>Air (IATA)</u>	<u>TDG (Canada)</u>
<b>UN Number:</b>	UN1760	UN1760	UN1760	UN1760
<b>Proper Shipping Name:</b>	Corrosive liquid, n.o.s., (Ammonium bifluoride, Sodium bifluoride)	Corrosive liquid, n.o.s., (Ammonium bifluoride, Sodium bifluoride)	Corrosive liquid, n.o.s., (Ammonium bifluoride, Sodium bifluoride)	Corrosive liquid, n.o.s., (Ammonium bifluoride, Sodium bifluoride)
<b>Hazard Class:</b>	8	8	8	8
<b>Packing Group:</b>	II	II	II	II
<b>Limited Quantity:</b>	Yes	Yes	Cargo Aircraft Only	Yes

## 15. Regulatory Information

### U.S. Federal Regulations:

#### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Toxicity (any route of exposure), Skin Corrosion or Irritation

**SARA Section 313**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
Sodium Bifluoride	1333-83-1
Hydrochloric Acid	7647-01-0

**Toxic Substances Control Act**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

**U.S. State Regulations:****California Proposition 65**

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**16. Other Information****HMIS RATINGS**

Health: 3\*      Flammability: 1      Physical Hazard: 0      Personal Protection: X

**NFPA RATINGS**

Health: 3      Flammability: 1      Instability: 0

Volatile Organic Compounds: 5.43%

SDS REVISION DATE: 8/10/2020

REASON FOR REVISION: Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

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