

# SAFETY DATA SHEET

Date Prepared : 2/3/2016  
SDS No : Flow Free\_SDS  
Date Revised : 2/19/2016  
Revision No : 2

## Flow Free

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Flow Free  
**GENERAL USE:** Ice machine cleaner  
**PRODUCT CODE:** K40-60055

#### MANUFACTURER

Ultra-Chem Inc.  
8043 Flint St  
Lenexa, KS 66214  
**Customer Service:** 800-451-0726

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

Infotrac 800-535-5053

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Eye Corrosion, Category 1  
Skin Corrosion, Category 1C

##### Environmental:

Corrosive to Metals

#### GHS LABEL

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)



Corrosion

**SIGNAL WORD:** DANGER

#### HAZARD STATEMENTS

H314: Causes severe skin burns and eye damage.  
H290: May be corrosive to metals.

#### PRECAUTIONARY STATEMENTS

##### Prevention:

P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
P264: Wash face, hands and any exposed skin thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

##### Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P341: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.  
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

##### Storage:

P405: Store locked up.

**Disposal:**

P501: Dispose of contents/container to an approved waste disposal plant.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Phosphoric Acid	30 - 60	7664-38-2
1,2,3-propanetricarboxylic Acid, 2-hydroxy-	3 - 7	77-92-9

**4. FIRST AID MEASURES**

**EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control Center Immediately if irritation persist.

**SKIN:** Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower. Call a POISON CENTER or doctor / physician. Remove and wash contaminated clothing before re-use.

**INGESTION:** Rinse mouth. Do NOT induce vomiting. Call a physician or Poison Control Center.

**INHALATION:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician or Poison Control Center if you feel unwell.

**5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**OTHER CONSIDERATIONS:** In a fire or if heated, a pressure increase will occur and the container may burst.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**SMALL SPILL:** No action should be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate, put on appropriate personal protective equipment.

**LARGE SPILL:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated adsorbent material may pose the same hazard as the spilled product.

**7. HANDLING AND STORAGE**

**HANDLING:** Ensure adequate ventilation. Wear personal protective equipment as required based on a risk assessment. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

**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 and food or drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Phosphoric Acid	TWA		1		1	NL	NL
	STEL				3	NL	NL

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** If splashes are likely to occur, wear: Tightly fitting safety goggles and face shield.

**SKIN:** 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.

**RESPIRATORY:** 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.

**WORK HYGIENIC PRACTICES:** 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.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Chemical Name	Flash Point (°C)	Boiling Point (°C)	Freezing Point (°C)	Specific Gravity
Phosphoric Acid	11	22	33	44

**PHYSICAL STATE:** Liquid

**ODOR:** Typical

**ODOR THRESHOLD:** No data available

**APPEARANCE:** Milky white liquid

**COLOR:** NA = Not Applicable

**pH:** < 1

**FLASH POINT AND METHOD:** Not Available

**FLAMMABLE LIMITS:** No data available

**AUTOIGNITION TEMPERATURE:** No data available

**VAPOR PRESSURE:** Not Available

**VAPOR DENSITY:** Not Available

**FREEZING POINT:** < (32°F)

**THERMAL DECOMPOSITION:** No data available

**SOLUBILITY IN WATER:** Complete

**EVAPORATION RATE:** Not Available

**SPECIFIC GRAVITY:** Not Available

**10. STABILITY AND REACTIVITY**

**STABLE:** Yes

**STABILITY:** Stable under recommended storage conditions.

**CONDITIONS TO AVOID:** Chlorine liberating material. Do not mix with bases, ammonia or other cleaning compounds.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of Carbon and Acid mist.

**INCOMPATIBLE MATERIALS:** Strong alkalis, strong oxidizing agents.

#### 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** Causes severe burns, stinging, redness, tearing, swelling, and may cause corneal damage, blindness. Burning may not be immediately painful or visible.

**SKIN EFFECTS:** Causes burns to all living tissue.

#### CARCINOGENICITY

Chemical Name	General Toxicity
Phosphoric Acid	None known.

#### 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** Not Established

**BIOACCUMULATION/ACCUMULATION:** None Expected.

#### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** 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 afterburner and scrubber.

**EMPTY CONTAINER:** Do not re-use empty containers.

#### 14. TRANSPORT INFORMATION

##### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Corrosive Liquid, N.O.S.

**TECHNICAL NAME:** (Contains: Phosphoric Acid)

**PRIMARY HAZARD CLASS/DIVISION:** 8

**UN/NA NUMBER:** UN1760

**PACKING GROUP:** III

**LABEL:** Corrosive

**OTHER SHIPPING INFORMATION:** All products offered for domestic ground transportation that meet the following exceptions for Class 8 (Corrosive Materials) will be packaged and shipped as "Limited Qty".

(1) For Corrosive Materials in Packing Group II, inner packaging not over 1.0 L (0.3 Gallon) net capacity each for liquids or not over 1.0 kg (2.2 lbs) net capacity each for solids, packed in a strong outer packaging with a gross package weight of 66 lbs or less.

(2) For Corrosive Materials in Packing Group III, inner packaging not over 5.0 L (1.3 Gallons) net capacity each for liquids or not over 5.0 kg (11 lbs) net capacity each for solids, packed in a strong outer packaging with a gross package weight of 66 lbs or less.

#### 15. REGULATORY INFORMATION

##### UNITED STATES

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

##### CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Phosphoric Acid	30 - 60	5,000

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
Phosphoric Acid	7664-38-2
1,2,3-propanetricarboxylic Acid, 2-hydroxy-	77-92-9

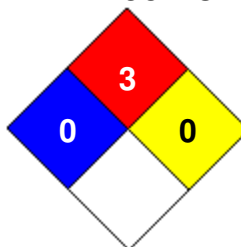
**16. OTHER INFORMATION**

**PREPARED BY:** KH    **Date Revised:** 2/19/2016

**REVISION SUMMARY:** This SDS replaces the 2/19/2016 SDS. Revised: **Section 1:** PRODUCT CODE.

**HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>3</b>
<b>FLAMMABILITY</b>		<b>0</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>
<b>PERSONAL PROTECTION</b>		<b>B</b>

**NFPA CODES**

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