



# MATERIAL SAFETY DATA SHEET

## CHROMATE INDUSTRIAL CORPORATION®

5250-A Naiman Parkway, Solon, OH 44139 • 888-567-2206 • www.chromate.com

**FOR CHEMICAL  
EMERGENCY**

Call ChemTrec day/night:  
**1-800-424-9300**

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** A/C FLUSH NON-FLAMMABLE

**DATE PREPARED:** May 18, 2008

**PART NUMBER:** 74384-74385

**PRODUCT TYPE:** Solvent

**CHROMATE INDUSTRIAL CORPORATION**

**CHEMICAL FAMILY:** Solvent

5250-A Naiman Parkway, Solon, OH 44139 • (888) 567-2206

### SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient/CAS No.	wt%	OSHA TWA	OSHA STEL	OSHA SKIN
n-Propyl bromide 106-94-5	95-100	N/L	N/L	N/L
Isopropyl Alcohol 67-63-0	1-5	N/L	N/L	N/L
Proprietary Ingredient Unknown	1-5	N/L	N/L	N/L

Ingredient/CAS No.	wt%	OSHA Z PEL	OSHA Z TWA	OSHA Z CEILING
n-Propyl bromide 106-94-5	95-100	N/L	N/L	N/L
Isopropyl Alcohol 67-63-0	1-5	980 mg/m <sup>3</sup> 400 ppm	980 mg/m <sup>3</sup> 400 ppm	N/L
Proprietary Ingredient Unknown	1-5	N/L	N/L	N/L

Ingredient/CAS No.	wt%	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV CEILING
n-Propyl bromide 106-94-5	95-100	10 ppm	N/L	N/L
Isopropyl Alcohol 67-63-0	1-5	200 ppm	400 ppm	N/L
Proprietary Ingredient Unknown	1-5	N/L	N/L	N/L

### SECTION 3 – HAZARDS IDENTIFICATION

**Emergency Overview:** **Caution:** Aspiration hazard. May cause irritation to skin and eyes. Mist may cause respiratory tract irritation. Vapor may cause flash fire.

**HMIS Classification:**  
**NFPA Rating:**

**Health: 1**  
**Health: 1**

**Flammability: 1**  
**Flammability: 1**

**Reactivity: 0**  
**Reactivity: 0**

**Special: B**

N/A — NOT APPLICABLE  
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

**SECTION 4 – FIRST AID MEASURES**

- Eye Contact:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
- Ingestion:** Aspiration hazard if swallowed - can enter lungs and cause damage. **Do Not Induce Vomiting!** *Get immediate medical attention.* If vomiting occurs, keep head lower than hips to prevent aspiration. If victim is conscious and alert, give 1-2 glasses of water to drink. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.
- Inhalation:** If inhaled, move to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. *Get medical attention.*
- Skin Contact:** In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Get medical attention if irritation persists. Wash clothing before reuse.

**SECTION 5 – FIRE FIGHTING MEASURES****FLAMMABLE PROPERTIES**

- Flashpoint °F/°C:** None
- Flash Point Method:** Not Determined
- Flammable Limits in Air- Lower (%):** 2
- Flammable Limits in Air-Upper (%):** 5
- Autoignition Temperature °F/°C:** 400 °F
- Extinguishing Media:** Alcohol foam. On small fires, dry chemical, dry sand, or CO2 may also be effective in large quantities.

**Protection of Fire-Fighters**

- Special Fire-Fighting Procedures:** Wear approved positive-pressure, self-contained breathing apparatus and protective clothing.
- Hazardous Combustion Products:** Carbon Dioxide. Halogenated compounds.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

- Personal Precautions:** Wear appropriate protective clothing and equipment to prevent skin and eye contact.
- Spill Procedures:** Wear protective equipment specified. Keep away from heat sparks and flames. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Action to be Taken if Material is Released or Spilled:** Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not allow any potentially contaminated water, including rain water runoff from fire fighting or spills to enter any waterway, sewer, or drain.
- Environmental Precautions:** Keep away from drains.

**SECTION 7 – HANDLING AND STORAGE**

- Handling and Storage:** Use ground strap. Keep container closed when not in use. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Use only in a well ventilated area. Wash hands before eating and smoking.

**SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

- Engineering Controls:** Exhaust ventilation.
- Eyes:** Wear safety glasses or goggles to protect against exposure.
- Skin Protection:** Avoid skin contact. Wear protective clothing and gloves. Use chemical resistant gloves for prolonged skin contact.
- Respiratory Protection:** Use in a well ventilated area. Use approved NIOSH respiratory protection if TLV exceeded, or over exposure is likely.

**SECTION 9 – PHYSICAL/CHEMICAL CHARACTERISTICS**

<b>Appearance:</b> Clear colorless liquid	<b>pH Value:</b> N/D
<b>Odor:</b> Mild	<b>Vapor Density (Air=1):</b> >1
<b>Vapor Pressure:</b> 18.5 kPA @20C	<b>Melting/Freezing Point (° F):</b> -166.0°F
<b>Boiling Point (° F):</b> 153.9°F	<b>Bulk Density at 20°C:</b> N/D
<b>Solubility in Water:</b> Insoluble in water	<b>Evaporation Rate:</b> N/D
<b>Molecular Weight:</b> Mixture	<b>Specific Gravity (H2O=1):</b> 1.23-1.26
<b>Viscosity:</b> >7 cSt (estimated)	<b>Decomposition Temperature:</b> N/K
<b>VOC Content(%):</b> N/D	

**SECTION 10 – STABILITY AND REACTIVITY**

**Chemical Stability:** Stable.  
**Conditions to Avoid:** Avoid any source of ignition.  
**Materials to Avoid:** Contact with oxidizing agents.  
**Hazardous Decomposition Products:** Carbon Dioxide.  
**Hazard Polymerization:** WILL NOT OCCUR.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**TOXICOLOGICAL DATA:**

<b>Ingredient/CAS No.</b>	<b>Route</b>	<b>Species</b>	<b>Dose</b>
n-Propyl bromide 106-94-5	Inhalation	Rats	253 gm/m <sup>3</sup> /30M
Isopropyl Alcohol 67-63-0	Inhalation	Rats	LC50 16,000 ppm
Proprietary Ingredient Unknown	Inhalation	Rats	Not Known

**CARCINOGENICITY:**

<b>Ingredient/CAS No.</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
n-Propyl bromide	N/L	Assigned to Lab for Toxic/Carcinogenesis Study	N/L
106-94-5	N/L	Assigned to Lab for Toxic/Carcinogenesis Study	N/L
Isopropyl Alcohol 67-63-0	N/L	N/L	N/L
Proprietary Ingredient Unknown	N/L	N/L	N/L

**SECTION 12 – ECOLOGICAL INFORMATION**

Ecological Testing has not been conducted on this product.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Waste Classification:** N/D

**Waste Management:** N/D

**Disposal Method:** Disposal should be made in accordance with federal, state and local regulations.

**SECTION 14 – TRANSPORT INFORMATION**

<b>U.S. DOT:</b>	<b>IMDG:</b>
<b>Proper Shipping Name:</b> ORM-D Consumer Commodity	<b>Proper Shipping Name:</b> N/D
<b>Hazard Class:</b> ORM-D	<b>Hazard Class:</b> N/D
<b>UN/NA Number:</b> N/D	<b>Hazard Sub-class:</b> N/D
<b>DOT Packing Group:</b> N/D	<b>UN No.:</b> N/D
	<b>Packing Group:</b> N/D
	<b>Marine Pollutant:</b> N/D

N/A — NOT APPLICABLE  
 N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

**SECTION 15 – REGULATORY INFORMATION**

**US FEDERAL REGULATIONS:**

Ingredient/CAS No.	SARA 313	SARA 302	TPQ`	RQ
n-Propyl bromide 106-94-5	N/L	N/L	N/L	N/L
Isopropyl Alcohol 67-63-0	Listed	N/L	N/L	N/L
Proprietary Ingredient Unknown	N/L	N/L	N/L	N/L

**SARA 311/312 HAZARD CATEGORIES:** IMMEDIATE

**STATE REGULATIONS:**

Ingredients/CAS No.	wt%	Calif. Prop 65 Cancer List	Calif. Prop 65 Developmental Toxicity	Calif. Prop 65 Reproductive Female	Calif. Prop 65 Reproductive Male
n-Propyl bromide 106-94-5		N/L	Listed 12/07/04 Developmental Toxin	Listed 12/07/04 Female ReproductiveToxin	Listed 12/07/04 Male Reproductive Toxin
Isopropyl Alcohol 67-63-0		N/L	N/L	N/L	N/L
Proprietary Ingredient Unknown		N/L	N/L	N/L	N/L

**New Jersey Right-to-Know List:**

- n-Propyl bromide  
106-94-5
  - Substance no. 0267
  - Substance no. 2422
  - Substance no. 2423
  - Substance no. 2425
  - Substance no. 2426
  - Substance no. 2427
  - Substance no. 2428
  - Substance no. 2429
  - Substance no. 2430
- Isopropyl Alcohol  
67-63-0
  - Substance no. 1076
  - Substance no. 2079
  - Substance no. 2422
  - Substance no. 2423
  - Substance no. 2425
  - Substance no. 2426
  - Substance no. 2427
  - Substance no. 2428
  - Substance no. 2429
  - Substance no. 2430
  - Substance no. 2381

**U.S. TSCA:** One or more components of this product is not listed on the TSCA Inventory.  
**Canadian Inventory:** One or more components of this product is not listed on the Canadian DSL or NDSL Inventory.  
**Carcinogenicity:** No component of this product at levels greater than .1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC).

**SECTION 16 – OTHER INFORMATION**

**GENERAL NOTES:** Do not allow undiluted material or large quantities to reach ground water, bodies of water or sewer systems.  
**DISCLAIMER:** The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THEGOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174