



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: PVC CLEAR PLASTIC PIPE CEMENT

DATE PREPARED: March 3, 2009

PART NUMBER: 74551

CHROMATE INDUSTRIAL CORPORATION

PRODUCT TYPE: CEMENT

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SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	%WT/WT	CAS NUMBER	ACGIH TLV TWA	OSHA PEL TWA	OTHER
TETRAHYDROFURAN	38 - 50%	109-99-9	50 ppm(skin) 100 ppm STEL	200 ppm	25 ppm (Mfg)
METHYL ETHYL KETONE	12 - 20%	78-93-3	200 ppm 300 ppm STEL	200 ppm	None
PVC RESIN (NON-HAZARDOUS)	12 - 20%	9002-86-2	10 mg/m ³	15 mg/m ³	None
ACETONE	10 - 20%	67-64-1	500 ppm 750 ppm	1000 ppm	None
CYCLOHEXANONE	7 - 14%	108-94-1	20 ppm(skin) 50 ppm STEL	50 ppm	None
AMORPHOUS FUMED SILICA 1 - 5% (NON-HAZARDOUS)		112945-52-5	10 MG/m ³	N/E	NONE

OSHA HAZARD CLASSIFICATION: *FLAMMABLE, IRRITANT, ORGAN EFFECTS*

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Clear liquid with an ether-like odor. Extremely flammable liquid and vapor. Vapors may cause flash fire.

Eyes/Skin Contact: May cause eye and skin irritation.

Inhalation: Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects.

Ingestion: Swallowing may cause irritation, nausea, vomiting, diarrhea and kidney or liver disorders. Aspiration hazard.

MAY BE FATAL IF SWALLOWED. Symptoms may be delayed.

SECTION 4 – FIRST AID MEASURES

Skin: Remove contaminated clothing immediately. Wash all exposed areas with soap and water. Get medical attention if irritation develops. Remove dried cement with hand cleaner or baby oil.

Eyes: If material gets into eyes or if fumes cause irritation, immediately flush eyes with plenty of water until chemical is removed. If irritation persists, get medical attention immediately.

Inhalation: If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen. Administer artificial respiration if breathing has stopped. Seek immediate medical attention.

Ingestion: ***DO NOT INDUCE VOMITING.*** Rinse mouth with water. Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention by calling a Poison Control Center, or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital.

N/A — NOT APPLICABLE
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

SECTION 5 – FIRE-FIGHTING MEASURES

Flashpoint / Method: 14 - 23°F(-10 to -5°C) / CCCFP

Flammability: LEL: 1.8 % Volume UEL: 1.8 % Volume

Extinguishing Media: Use dry chemical, CO₂, or foam to extinguish fire. Cool fire exposed container with water. Water may be ineffective as an extinguishing agent.

Special Fire-Fighting Procedure: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

Unusual Fire and Explosion Hazards: *EXTREMELY FLAMMABLE LIQUID.* Keep away from heat and all sources of ignition including sparks, flames, lighted cigarettes and pilot lights. Containers may rupture or explode in the heat of a fire. Vapors are heavier than air and may travel to a remote ignition source and flash back. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

Hazardous Decomposition Products: Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Remove all sources of ignition and ventilate area. Stop leak if it can be done without risk. Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high. Soak up spill with an inert absorbent such as sand, earth or other non-combusting material. Put absorbent material in covered, labeled metal containers. Prevent liquid from entering watercourses, sewers and natural waterways. Report releases to authorities as required. See *Section 13 for disposal information.*

SECTION 7 – HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use with adequate ventilation (equivalent to outdoors). Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use.

Storage: Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.

Other: "Empty" containers retain product residue and can be hazardous. Follow all MSDS precautions in handling empty containers. Do not cut or weld on or near empty or full containers.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation: Open doors & windows. Provide ventilation capable of maintaining emissions at the point of use below recommended exposure limits. If used in enclosed area, use exhaust fans. Exhaust fans should be explosion-proof or set up in a way that flammable concentrations of solvent vapors are not exposed to electrical fixtures or hot surfaces.

Respiratory Protection: For operations where the exposure limit may be exceeded, a NIOSH-approved organic vapor respirator or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

Skin Protection: Rubber gloves are suitable for normal use of the product. For long exposures chemical resistant gloves may be required to avoid prolonged skin contact.

Eye Protection: Safety glasses with side shields or safety goggles.

Other: Eye wash and safety shower should be available.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 151°F / 66°C

Vapor Pressure: 145 mmHg @ 20°C

Volatile Components: 80-84%

pH: N/A

Evaporation Rate: (BUAC = 1) = 5.5 - 8.0

Odor: Ether-Like

Material Is: Liquid

Melting Point: N/A

Vapor Density: (Air = 1) 2.5

Solubility In Water: Negligible

Specific Gravity: 0.93 +/- 0.02 @ 20°C

Appearance: Clear Liquid

Will Dissolve In: Tetrahydrofuran

N/A — NOT APPLICABLE
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: Avoid heat, sparks, flames and other sources of ignition.

Hazardous Decomposition Products: Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.

Incompatibility/ Materials To Avoid: Oxidizing agents, alkalis, amines, ammonia, acids, chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. May attack plastic, resins and rubber.

Hazardous Polymerization: Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Inhalation: Vapors or mists may cause mucous membrane and respiratory irritation, coughing, headache, dizziness, dullness, nausea, shortness of breath and vomiting. High concentrations may cause central nervous system depression, narcosis and unconsciousness. May cause kidney, liver and lung damage.

Skin: May cause irritation with redness, itching and pain. Methyl ethyl ketone and cyclohexanone may be absorbed through the skin causing effects similar to those listed under inhalation.

Eye: Vapors may cause irritation. Direct contact may cause irritation with redness, stinging and tearing of the eyes. May cause eye damage.

Ingestion: Swallowing may cause abdominal pain, nausea, vomiting and diarrhea. Aspiration during swallowing or vomiting can cause chemical pneumonia and lung damage. May cause kidney and liver damage.

Chronic Toxicity: Prolonged or repeated overexposure cause dermatitis and damage to the kidney, liver, lungs and central nervous system.

TOXICITY DATA:

ACETONE	Oral Rat LD50: 5,800 mg/kg Inhalation Rat LC50: 50,100 mg/m ³ /8 hours
CYCLOHEXANONE	Oral Rat LD50: 1,620 mg/kg Inhalation Rat LC50: 8,000 ppm/4 hours Skin Rabbit LD50: 1 ml/kg
TETRAHYDROFURAN	Oral Rat LD50: 1,650 mg/kg Inhalation Rat LC50: 21,000 ppm/3 hours
METHYL ETHYL KETONE	Oral Rat LD50: 2,737 mg/kg Inhalation Rat LC50: 23,500 mg/m ³ /8 hours Skin Rabbit LD50: 6,480 mg/kg

Sensitization: None of the components are known to cause sensitization.

Carcinogenicity: None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA.

The National Toxicology Program has reported that exposure of mice and rats to tetrahydrofuran (THF) vapor levels up to 1800 ppm 6 hr/day, 5 days/week for their lifetime caused an increased incidence of kidney tumors in male rats and liver tumors in female mice. The significance of these findings for human health is unclear at this time, and may be related to "species specific" effects. Elevated incidences of tumors in humans have not been reported for THF. ACGIH has classified cyclohexanone (CYH) and tetrahydrofuran as "A3," Confirmed Animal Carcinogens with Unknown Relevance to Humans.

Mutagenicity: Cyclohexanone has been positive in bacterial and mammalian assays. Acetone, methyl ethyl ketone and tetrahydrofuran are generally thought not to be mutagenic.

Reproductive Toxicity: Methyl ethyl ketone and cyclohexanone have been shown to cause embryofetal toxicity and birth defects in laboratory animals. Acetone and tetrahydrofuran has been found to cause adverse developmental effects only when exposure levels cause other toxic effects to the mother.

Medical Conditions Aggravated By Exposure: Persons with pre-existing skin, lung, kidney or liver disorders may be at increased risk from exposure to this product.

SECTION 12 – ECOLOGICAL INFORMATION

This product is not expected to be toxic to aquatic organisms.

Cyclohexanone: 96 hour LC50 values for fish is over 100 mg/L.

Tetrahydrofuran: 96 hour LC50 fathead minnow: 2160 mg/L.

Acetone: 96 hour LC50 for fish is greater than 100 mg/L.

Methyl Ethyl Ketone: 96 hour LC50 for fish is greater than 100 mg/L.

VOC INFORMATION: This product emits VOC's (volatile organic compounds) in its use. Make sure that use of this product complies with local VOC emission regulations, where they exist.

VOC Level: Maximum 510 g/L per SCAQMD Test Method 316A.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose in accordance with current local, state and federal regulations.

RCRA Hazardous Waste Number: U002, U057, U159, U213

EPA Hazardous Waste ID Number: D001, D035, F003, F005

EPA Hazard Waste Class: Ignitable Waste. Toxic Waste (Methyl Ethyl Ketone content)

SECTION 14 – TRANSPORT INFORMATION

	< 1 Liter (0.3 gal)	>1 Liter (0.3 gal)
DOT		
UN/NA Number:	None	UN1133
Proper Shipping Name:	Consumer Commodity	Adhesives
Hazard Class:	ORM-D	3
Packing Group:	None	PGII
Hazard Labels:	None	Flammable Liquid
IMDG		
UN Number:	UN1133	UN1133
Proper Shipping Name:	Adhesives	Adhesives
Hazard Class:	3	3
Packing Group:	II	II
Label:	None (Limited Quantities are excepted from labeling)	Class 3 (Flammable Liquid)
Flashpoint (°C):	-10°C to -5°C	-10°C to -5°C

2008 North American Emergency Response Guidebook Number: 127

