



Ramtech Overseas, Inc  
5017 West Laurel Street, Tampa, FL 33607, USA

**CPVC CEMENT ORANGE No. 614**  
**Heavy Body – Medium Set**

V.07.20



MADE IN U.S.A.

PRODUCT NAME: 614 FOR CPVC HEAVY ORANGE

GHS SAFETY DATA SHEET

Revised: July 01, 2020

**SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Ramolene® 614™ Low VOC for CPVC Plastic Pipe. Heavy Body - Orange

**Supplier:** Ramtech Overseas, Inc., 5017 W. Laurel St., Tampa, FL 33607 USA. Tel: +1-813-287-2588 / Fax: +1- 813-287-1814

**Emergency:** Chemtrec: 800-255-3924 (USA) Outside USA: +1-813-248-0585

**SECTION 2 – HAZARD CLASSIFICATION**

**GHS Classification:**

Flammable Liquid Category 2  
Skin Irritation Category 3  
Acute Toxicity Category 4  
Eye Irritation Category 2A  
Inhalation Category 4

**Signal Word:**  
**Danger**

**GHS LABEL**



**Hazard Statements**

Highly flammable liquid and vapor  
Harmful in contact with skin  
Harmful if swallowed  
May cause respiratory irritation  
Harmful if inhaled  
Causes serious eye irritation  
May cause drowsiness or dizziness

**Precautionary Statements**

Keep away from heat/sparks/open flames/hot surfaces  
Do not drink or smoke when using  
Wear eye & face protection/protective gloves & clothing  
Wash thoroughly after using/handling  
Store & Use in well-ventilated area. Keep container tightly closed  
If breathing is difficult vacate to fresh air  
Dispose of contents/container in accordance with local regulations

**SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

	Cas No.	Percent
Tetrahydrofuran	109-99-9	30-40
Methyl Ethyl Ketone	78-93-3	1-5
Cyclohexanone	108-94-1	10-20
Acetone	67-64-1	15-25

**SECTION 4 – FIRST AID MEASURES**

**Eyes:** If material comes into contact with immediately flush eyes with plenty of water. Seek medical attention if irritation persists.  
**Skin:** Remove contaminated clothing. Wash exposed skin with soap and water. Seek medical attention if irritation persists.  
**Inhalation:** Vacate to fresh or well-ventilated area. If breathing has stopped administer artificial respiration and seek medical advice.  
**Ingestion:** Do not induce vomiting. Rinse mouth with water; give 1-2 glasses of water or milk. Seek medical advice immediately.

**SECTION 5 – FIREFIGHTING MEASURES**

**General Fire Hazard:** Highly Flammable liquid and vapor. Keep away from source of spark and ignition.  
**Extinguishing Media:** Dry Chemical, Carbon Dioxide Gas, Foam Extinguisher.  
**Fire Fighter's Protection:** Self breathing apparatus and full protective clothing.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Environmental Precautions:** Prevent product from entering into drain, sewer or open water course.  
**Personal Precautions:** Avoid contact with skin or eyes. Wear appropriate protective clothing, shoes and respiratory equipment. Provide sufficient ventilation.  
**Method for cleaning:** Soak up spill with an inert absorbent. Put absorbent material in covered, labeled metal container.  
**Emergency Measures:** Isolate area. Provide ventilation. Keep unnecessary personnel away.

**SECTION 7 – HANDLING AND STORAGE**

**Handling:** Keep away from source of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Do not eat, drink or smoke with handling material. Keep containers closed when not in use. Mark containers appropriately. Wash thoroughly after handling. Ensure proper ventilation.  
**Storage:** Store in dry, cool well-ventilated area. Store under 100° Fahrenheit – 44° Celsius. Keep away from source of ignition and incompatible materials.

**SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION**

**Exposure Limits:**

	ACGIH TWA	ACGIH STEL	OSHA PEL	NOISH TWL
Tetrahydrofuran	50 ppm	100 ppm	200 ppm	200 ppm
Methyl Ethyl Ketone	200 ppm	300 ppm	200 ppm	200 ppm
Cyclohexanone	20 ppm	50 ppm	50 ppm	25 ppm
Acetone	250 ppm	500 ppm	1000 ppm	250 ppm

**Engineering Measures:** Provide sufficient ventilation, open doors and windows. Provide local exhaust as needed.

**Personal Protective Equipment:**

**Eyes:** Avoid contact with eyes. Wear splash proof goggles.  
**Skin:** Prevent contact with skin. Wear rubber gloves for normal use. Wear chemical resistance glove for extended exposure.  
**Respiratory:** Avoid inhalation of solvent and vapor. Provide adequate ventilation. Open doors and windows to allow air flow and cross ventilation. Provide local exhaust to keep exposure below allowable limits.



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**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Orange, heavy syrupy liquid	<b>Odor Threshold:</b>	0.88 ppm (Cyclohexanone)
<b>Odor:</b>	Ketone	<b>Boiling Range:</b>	Range 120°F to 150°F (49°C to 65°C)
<b>pH:</b>	Not Applicable	<b>Evaporation Rate:</b>	> 1.0 (BUAC = 1)
<b>Melting/Freezing Point:</b>	Not Applicable	<b>Flammability:</b>	Category 2
<b>Boiling Point:</b>	Range 120°F to 150°F (49°C to 65°C)	<b>Flammability Limits:</b>	<b>LEL:</b> 1.1% based on Cyclohexanone
<b>Flash Point:</b>	-20°C (-4°F) TCC based on Acetone		<b>UEL:</b> 12.8% based on Acetone
<b>Specific Gravity:</b>	0.961±0.01 @ 23°C ( 73°F)	<b>Vapor Pressure:</b>	190 mm Hg @ 20°C (68°F) Acetone
<b>Solubility:</b>	Negligible-solvent portion in water.	<b>Vapor Density:</b>	>2.0 (Air = 1)
<b>Partition Coefficient n-octanol/water:</b>	Not Available	<b>Other Data: Viscosity:</b>	Heavy bodied
<b>Auto-ignition Temperature:</b>	321°C (610°F) based on THF		
<b>Decomposition Temperature:</b>	Not Applicable		
<b>VOC Content:</b>	When applied as directed, per SCAQMD Rule 1168, Test Method 316A,VOC content is: ≤ 550 g/l.		

**SECTION 10 – STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable material
<b>Hazardous Reaction:</b>	None in normal use. Combustion will give off toxic and irritating vapors oxides of carbon, hydrogen chloride
<b>Condition to avoid:</b>	Keep away for source of ignition, spark, flame, heat.
<b>Incompatible materials:</b>	Oxidizing agents, amines, ammonia, alkalis

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Potential Health Effects:**

<b>Eye:</b>	Vapor may cause irritation. Over exposure may cause eye injury
<b>Skin:</b>	Contact with liquid may cause irritation, itching and pain.
<b>Inhalation:</b>	Vapors may cause respiratory irritation, headache, dizziness and.
<b>Ingestion:</b>	May cause nausea and vomiting.

**Long Term Effects:** None known to human

<b>Toxicity:</b>		
Tetrahydrofuran (THF)	Inhalation: 3 hrs. 21,000 mg/m <sup>3</sup> (rat)	Oral: 2842 mg/kg (rat), Dermal: > 2,000 mg/kg (rat)
Methyl Ethyl Ketone (MEK)	Inhalation: 8 hrs. 23,500 mg/m <sup>3</sup> (rat)	Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)
Cyclohexanone	Inhalation: 4 hrs. 8,000 PPM (rat)	Oral: 800 mg/kg (rat)
Acetone	Inhalation: 50,100 mg/m <sup>3</sup> (rat)	Oral: 5800 mg/kg (rat)

Reproductive Effects: Not established

Specific Target Organ General Toxicity – Single exposure: May cause respiratory irritation

Specific Target Organ General Toxicity – Repeated exposure: Not reported to have any effects

**SECTION 12 – ECOLOGICAL INFORMATION**

<u>Ecotoxicity:</u>	None known	<u>Mobility:</u>	Can move rapidly through the soil
<u>Degradability:</u>	Not readily biodegradable	<u>Bioaccumulation:</u>	Minimal to none

**SECTION 13 – DISPOSAL**

Dispose of waste and containers in compliance with applicable Federal, State, Provincial, and Local regulations. Consult disposal expert.

**SECTION 14 – TRANSPORTATION**

**DOT INFORMATION:**

For packaging more than 1 liter:		For packaging less than 1 liter:	
Proper Shipping Name:	Adhesives	Shipping Name:	ORM-D Consumer Commodity
Identification No.:	UN 1133		
Hazard Class:	3	Packing Group:	PG II
		Secondary Risk:	None
		Required Label:	Flammable Liquid

**SECTION 15 – REGULATORY INFORMATION**

Risk Phrases:

Highly flammable.  
Harmful by inhalation.  
Irritating to eyes.  
Vapors may cause nausea and dizziness.  
If swallowed take 1-2 glass of water or milk, seek medical advice immediately.  
In case contact with skin rinse thoroughly or wash with soap and water.

Safety Phrases:

Keep container closed when not in use.  
Keep container in cool and dry area.  
Keep container in well ventilated area.  
Keep away from source of ignition, flame, sparks.  
Avoid contact with eyes.

**SECTION 16 – OTHER INFORMATION**

OSHA =	Occupational Safety and Health Administration	ACGIH =	American Conference of Governmental Industrial Hygienists
EPA =	Environmental Protection Agency	NIOSH =	National Institute for Occupational Safety and Health
TSCA =	Toxic Substance Control Act	NTP =	National Toxicology Program