

# Orange Lava CPVC Cut-In Cement Oatey Co.

Version No: 1.2

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **03/27/2024**Print Date: **03/27/2024** 

S.GHS.USA.EN

## **SECTION 1 Identification**

## **Product Identifier**

Product name	Orange Lava CPVC Cut-In Cement
Synonyms	Not Available
Proper shipping name	Adhesives
Other means of identification	32166, 32167, 32168

#### Recommended use of the chemical and restrictions on use

Relevant identified uses	Joining CPVC Pipes
Neievant lucitineu uses	

## Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	Oatey Co.
Address	20600 Emerald Parkway, Cleveland, OH 44135 United States Ohio 44135 United States
Telephone	216-267-7100
Fax	Not Available
Website	<u>oatey.com</u>
Email	info@oatey.com

## **Emergency phone number**

Association / Organisation	Chemtrec	
Emergency telephone numbers	1 1-800-424-9300 (Outside the US 1-703-527-3887)	
Other emergency telephone numbers	1-877-740-5015 (Emergency First Aid)	

## SECTION 2 Hazard(s) identification

## Classification of the substance or mixture

Classification

Flammable Liquids Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Carcinogenicity Category 2

## Label elements

Hazard pictogram(s)







Signal word

Danger

## Hazard statement(s)

Tidzard Statement(s)				
	Highly flammable liquid and vapour.			
	May cause an allergic skin reaction.			
		_		

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Causes serious eye irritation.

May cause respiratory irritation.

Suspected of causing cancer.

## Hazard(s) not otherwise classified

Repeated exposure may cause skin dryness or cracking. May form explosive peroxides. Additional details on the carcinogenicity classification are provided in Section 11

## Precautionary statement(s) Prevention

Obtain special instructions before use.
Keep away from heat/sparks/open flames/hot surfaces No smoking.
Keep container tightly closed.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, protective clothing, eye protection and face protection.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing mist/vapours/spray.
Do not handle until all safety precautions have been read and understood.
Wash all exposed external body areas thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

## Precautionary statement(s) Response

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	IF exposed or concerned: Get medical advice/ attention.	
	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.	
	IF ON SKIN: Wash with plenty of water and soap.	
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
	If skin irritation or rash occurs: Get medical advice/attention.	
	If eye irritation persists: Get medical advice/attention.	
	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	

#### Precautionary statement(s) Storage

	Store in a well-ventilated place. Keep cool.
	Store locked up.

## Precautionary statement(s) Disposal

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

## **SECTION 3 Composition / information on ingredients**

### Substances

See section below for composition of Mixtures

## Mixtures

CAS No	%[weight]	Name
109-99-9*	50-70	<u>tetrahydrofuran</u>
67-64-1*	10-25	Acetone
68648-82-8	10-25	polyvinyl chloride, chlorinated
112945-52-5	1-5	silica amorphous, fumed
Not Available	0.1-1	Trade Secret Stabilizer

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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#### **Orange Lava CPVC Cut-In Cement**

**SECTION 4 First-aid measures** 

## **Description of first aid measures**

Eye Contact	If this product comes in contact with the eyes:  • Wash out immediately with fresh running water.  • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  • Seek medical attention without delay; if pain persists or recurs seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

## Most important symptoms and effects, both acute and delayed

See Section 11

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5 Fire-fighting measures**

## **Extinguishing media**

- ▶ Foam.
- Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

## Special hazards arising from the substrate or mixture

Fire	Incompatibility
------	-----------------

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may
result

## Special protective equipment and precautions for fire-fighters

Fire Fighting	<ul> <li>Alert Fire Department and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Consider evacuation (or protect in place).</li> <li>Fight fire from a safe distance, with adequate cover.</li> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>Use water delivered as a fine spray to control the fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>Do notapproach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>		
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are highly flammable.</li> <li>Severe fire hazard when exposed to heat, flame and/or oxidisers.</li> <li>Vapour may travel a considerable distance to source of ignition.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May form explosive peroxides.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>hydrogen chloride</li> <li>phosgene</li> <li>silicon dioxide (SiO2)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>		

## **SECTION 6 Accidental release measures**

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#### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

## Methods and material for containment and cleaning up

	▶ Remove all ignition sources.
	▶ Clean up all spills immediately.
	<ul> <li>Avoid breathing vapours and contact with skin and eyes.</li> </ul>
Minor Spills	<ul> <li>Control personal contact with the substance, by using protective equipment.</li> </ul>
	Contain and absorb small quantities with vermiculite or other absorbent material.
	▶ Wipe up.
	► Collect residues in a flammable waste container.
	► Clear area of personnel and move upwind.
	Alert Fire Department and tell them location and nature of hazard.
	▶ May be violently or explosively reactive.
	<ul> <li>Wear breathing apparatus plus protective gloves.</li> </ul>
	Prevent, by any means available, spillage from entering drains or water course.
	▶ Consider evacuation (or protect in place).
	<ul><li>No smoking, naked lights or ignition sources.</li></ul>
	▶ Increase ventilation.
Major Spills	▶ Stop leak if safe to do so.
	<ul><li>Water spray or fog may be used to disperse /absorb vapour.</li></ul>
	▶ Contain spill with sand, earth or vermiculite.
	<ul> <li>Use only spark-free shovels and explosion proof equipment.</li> </ul>
	<ul> <li>Collect recoverable product into labelled containers for recycling.</li> </ul>
	Absorb remaining product with sand, earth or vermiculite.
	<ul> <li>Collect solid residues and seal in labelled drums for disposal.</li> </ul>
	Wash area and prevent runoff into drains.
	▶ If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## **SECTION 7 Handling and storage**

## Precautions for safe handling

- ▶ Containers, even those that have been emptied, may contain explosive vapours.
- ▶ Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- ▶ DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, naked lights, heat or ignition sources.
- ▶ When handling, **DO NOT** eat, drink or smoke.
- Vapour may ignite on pumping or pouring due to static electricity.
- DO NOT use plastic buckets.
- ► Earth and secure metal containers when dispensing or pouring product.
- Use spark-free tools when handling.
- Avoid contact with incompatible materials.
- ▶ Keep containers securely sealed.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
- ▶ DO NOTallow clothing wet with material to stay in contact with skin

## Other information

Safe handling

- Store in original containers in approved flame-proof area.
- No smoking, naked lights, heat or ignition sources.
- ▶ DO NOT store in pits, depression, basement or areas where vapours may be trapped.
- ▶ Keep containers securely sealed.
- Store away from incompatible materials in a cool, dry well ventilated area.
- ▶ Protect containers against physical damage and check regularly for leaks.
- ▶ Observe manufacturer's storage and handling recommendations contained within this MSDS.
- ▶ Tank storage: Tanks must be specifically designed for use with this product. Bulk storage tanks should be diked (bunded). Locate tanks away from heat and other sources of ignition. Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions.

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- Keep in a cool place. Electrostatic charges will be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk. The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.
- For containers, or container linings use mild steel, stainless steel. Examples of suitable materials are: high density polyethylene (HDPE), polypropylene (PP), and Viton (FMK), which have been specifically tested for compatibility with this product.
- For container linings, use amine-adduct cured epoxy paint.
- For seals and gaskets use: graphite, PTFE, Viton A, Viton B.
- ▶ Unsuitable material: Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Examples of materials to avoid are: natural rubber (NR), nitrile rubber (NBR), ethylene propylene rubber (EPDM), polymethyl methacrylate (PMMA), polystyrene, polyvinyl chloride (PVC), polyisobutylene. However, some may be suitable for glove materials.
- ▶ Do not cut, drill, grind, weld or perform similar operations on or near containers. Containers, even those that have been emptied, can contain explosive vapours.

## Conditions for safe storage, including any incompatibilities

#### Suitable container

Storage incompatibility

- Packing as supplied by manufacturer.
- Plastic containers may only be used if approved for flammable liquid.
- Check that containers are clearly labelled and free from leaks.

#### Silicas

- react with hydrofluoric acid to produce silicon tetrafluoride gas
- react with xenon hexafluoride to produce explosive xenon trioxide
- reacts exothermically with oxygen difluoride, and explosively with chlorine trifluoride (these halogenated materials are not commonplace industrial materials) and other fluorine-containing compounds
- may react with fluorine, chlorates
- re incompatible with strong oxidisers, manganese trioxide, chlorine trioxide, strong alkalis, metal oxides, concentrated orthophosphoric acid, vinyl acetate
- may react vigorously when heated with alkali carbonates.
- Avoid reaction with oxidising agents

#### **SECTION 8 Exposure controls / personal protection**

#### Control parameters

## Occupational Exposure Limits (OEL)

#### **INGREDIENT DATA**

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	tetrahydrofuran	Tetrahydrofuran	200 ppm / 590 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	tetrahydrofuran	Tetrahydrofuran	200 ppm / 590 mg/m3	735 mg/m3 / 250 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Acetone	Acetone	1000 ppm / 2400 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Acetone	Acetone	250 ppm / 590 mg/m3	Not Available	Not Available	Not Available

#### Exposure controls

#### Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant.

Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:	Air Speed:	
	0.25-0.5	
solvent, vapours, degreasing etc., evaporating from tank (in still air).	m/s	
Solvent, vapours, degreasing etc., evaporating normalik (in still all).	(50-100	
	f/min.)	

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aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)

direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)

1-2.5 m/s (200-500 f/min.)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

- · Adequate ventilation is typically taken to be that which limits the average concentration to no more than 25% of the LEL within the building, room or enclosure containing the dangerous substance.
- · Ventilation for plant and machinery is normally considered adequate if it limits the average concentration of any dangerous substance that might potentially be present to no more than 25% of the LEL. However, an increase up to a maximum 50% LEL can be acceptable where additional safeguards are provided to prevent the formation of a hazardous explosive atmosphere. For example, gas detectors linked to emergency shutdown of the process might be used together with maintaining or increasing the exhaust ventilation on solvent evaporating ovens and gas turbine enclosures.
- Temporary exhaust ventilation systems may be provided for non-routine higher-risk activities, such as cleaning, repair or maintenance in tanks or other confined spaces or in an emergency after a release. The work procedures for such activities should be carefully considered. The atmosphere should be continuously monitored to ensure that ventilation is adequate and the area remains safe. Where workers will enter the space, the ventilation should ensure that the concentration of the dangerous substance does not exceed 10% of the LEL (irrespective of the provision of suitable breathing apparatus)

## Individual protection measures, such as personal protective equipment









## Eye and face protection

- Safety glasses with side shields.
- ► Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

## Skin protection

#### See Hand protection below

#### ▶ Wear c

- Wear chemical protective gloves, e.g. PVC.Wear safety footwear or safety gumboots, e.g. Rubber
- NOTE:

#### Hands/feet protection

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- ► Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

## Body protection

#### See Other protection below

produce static electricity.

- Overalls.
- ▶ PVC Apron.
- ▶ PVC protective suit may be required if exposure severe.
- ▶ Eyewash unit.
- Ensure there is ready access to a safety shower.

## ▶ Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may

## Other protection

- For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).
- Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and return.

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## Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

## **SECTION 9 Physical and chemical properties**

## Information on basic physical and chemical properties

Appearance	Orange Translucent Liquid		
Physical state	Liquid	Relative density (Water = 1)	0.97 +/- 0.02
Odour	Solvent	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cP)	500 - 1500
Initial boiling point and boiling range (°C)	66.11 (151°F)	Molecular weight (g/mol)	Not Available
Flash point (°C)	-105 (14 -23°F)	Taste	Not Available
Evaporation rate	5.5-8	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	145 mm Hg @ 20°C	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	2.5	VOC g/L	<400 SCAQMD 1168/M316A

## **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## **SECTION 11 Toxicological information**

## Information on toxicological effects

ı	n	h	a	le

The material has **NOT** been classified as 'harmful by inhalation'. This is because of the lack of corroborating animal or human evidence.

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	The material can of damage.	he material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung lamage.								
Ingestion	The material has <b>N</b> evidence.	e material has <b>NOT</b> been classified as 'harmful by ingestion'. This is because of the lack of corroborating animal or human dence.								
Skin Contact	Open cuts, abrade Entry into the bloo	cause an allergic skin reaction. Dermatitis. Rash.  n cuts, abraded or irritated skin should not be exposed to this material  r into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.  nine the skin prior to the use of the material and ensure that any external damage is suitably protected.								
Eye	This material can	cause eye irritation and dama	ge in some perso	ns.						
Chronic	Suspected of caus lifetime study on T neither the female clearly in either sp assessment of car	epeated exposure may cause skin dryness or cracking.  uspected of causing cancer. In 2012 USEPA Integrated Risk Information System (IRIS)reviewed a two species inhalation etime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while either the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified early in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the essessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that ere is 'suggestive evidence of carcinogenic potential' following exposure to THF by all routes of exposure.								
	Chemical Name	IARC		NTP	OSHA					
Carcinogenicity	Tetrahydrofuran	Group 2B - Possibly carcino	genic to humans	Not Listed	Not Listed					
Acute Toxicity	×		Ca	rcinogenicit						
Skin Irritation/Corrosion	×		Reproductivity		y ×					
Serious Eye Damage/Irritation	*		STOT - Sin	gle Exposur	• 🗸					
Respiratory or Skin sensitisation	<b>~</b>		STOT - Repeat	ted Exposur	×					
Mutagenicity	×		Aspii	ration Hazar	x i					

Legend:

🗶 – Data either not available or does not fill the criteria for classification

Data available to make classification

## **SECTION 12 Ecological information**

## Toxicity

range Lava CPVC Cut-In	Endpoint	Endpoint Test Duration (hr)  Not Available Not Available		)	Species		Valu	ie	Sour	ce
Cement	Not Available			Not Available N		Not Available Not		Not Available Not A		Available
	Endpoint		Test Duration (I	nr)		Species	Valu	ıe		Source
tetrahydrofuran	NOEC(ECx)		24h			Fish	>=5	mg/l		1
	LC50		96h			Fish	197	0-2360mg/l		4
	Endpoint	Tes	t Duration (hr)	Species	3			Value		Source
	EC50	48h		Crustac	Crustacea		6098.4mg/L		5	
	EC50	96h		Algae or other aquatic plants		9.873-27.684mg/l		4		
Acetone	NOEC(ECx)	12h		Fish			0.001mg/L		4	
	EC50	72h		Algae or other aquatic plants		5600-10000mg/l		4		
	LC50	96h	h Fish			3744.6-5000.7mg/L		).7mg/L	4	
polyvinyl chloride,	Endpoint		Test Duration (hr	·)	Spe	cies	Valu	ie	Sour	ce
chlorinated	Not Available		Not Available		Not .	Available	Not	Available	Not A	vailable
	Endpoint		Test Duration (I	nr)		Species		/alue		Source
silica amorphous, fumed	NOEC(ECx)		24h			Crustacea	;	>=10000mg/l		1
Legend:	Extracted from 1.	IUCLI	D Toxicity Data 2. E	Europe ECHA	\ Reais	stered Substanc	es - Eco	toxicological In	formation -	· Aquatic Toxi

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DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
tetrahydrofuran	LOW	LOW
Acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)

#### Bioaccumulative potential

Ingredient	Bioaccumulation			
tetrahydrofuran	LOW (LogKOW = 0.46)			
Acetone	LOW (BCF = 0.69)			

#### Mobility in soil

Ingredient	Mobility
tetrahydrofuran	LOW (Log KOC = 4.881)
Acetone	HIGH (Log KOC = 1.981)

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

#### Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

## Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- ▶ Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

## **SECTION 14 Transport information**

## **Labels Required**



**Marine Pollutant** 

NO

Shipping container, transport vehicle placarding, and labeling may vary from the below information. This depends on the quantity shipped, the applicability of excepted quantity requirements, limited quantity requirements, and/or special provisions according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

## Land transport (DOT)

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14.1. UN number or ID number			
14.2. UN proper shipping name	Adhesives		
14.3. Transport hazard class(es)	Class Subsidiary Hazard	Not Applicable	
14.4. Packing group	II		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Hazard Label Special provisions	3 149, B52, IB2, T4, TP1, TP8	

## Air transport (ICAO-IATA / DGR)

14.1. UN number	1133		
14.2. UN proper shipping name	Adhesives		
	ICAO/IATA Class 3		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	ICAO / IATA Subsidiary Hazard Not Applicable	
ciass(es)	ERG Code	3L	
14.4. Packing group	II		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions	А3	
	Cargo Only Packing Instructions	364	
	Cargo Only Maximum Qty / Pack	60 L	
	Passenger and Cargo Packing Ir	353	
	Passenger and Cargo Maximum	5 L	
	Passenger and Cargo Limited Qu	Y341	
	Passenger and Cargo Limited Ma	1 L	

## Sea transport (IMDG-Code / GGVSee)

1133			
ADHESIVES			
IMDG Class		3	
IMDG Subsidiary Hazard		Not Applicable	
II			
Not Applicable			
EMS Number	F-E , S	S-D	
Special provisions	Not Ap	pplicable	
Limited Quantities	5 L		
	ADHESIVES  IMDG Class  IMDG Subsidiary Ha  II  Not Applicable  EMS Number  Special provisions	ADHESIVES  IMDG Class IMDG Subsidiary Hazard  II  Not Applicable  EMS Number F-E, S  Special provisions Not Applications	

## **SECTION 15 Regulatory information**

## Safety, health and environmental regulations / legislation specific for the substance or mixture

## tetrahydrofuran is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

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US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Section 4/12 (b) - Sunset Dates/Status

#### Acetone is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US DOE Temporary Emergency Exposure Limits (TEELs)

US Drug Enforcement Administration (DEA) List I and II Regulated Chemicals

US EPA Integrated Risk Information System (IRIS)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Section 4/12 (b) - Sunset Dates/Status

#### polyvinyl chloride, chlorinated is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### silica amorphous, fumed is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### **Additional Regulatory Information**

Not Applicable

## **Federal Regulations**

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

## Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	Yes
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	Yes
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	Yes

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#### **Orange Lava CPVC Cut-In Cement**

Specific target organ toxicity (single or repeated exposure) No Aspiration Hazard No Germ cell mutagenicity No Simple Asphyxiant No Hazards Not Otherwise Classified Yes

## US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Name	Reportable Quantity in Pounds (Ib)	Reportable Quantity in kg
tetrahydrofuran	1000	454
Acetone	5000	2270

#### US. EPCRA Section 313 Toxic Release Inventory (TRI) (40 CFR 372)

None Reported

## **Additional Federal Regulatory Information**

Not Applicable

## State Regulations

#### US. California Proposition 65



MARNING: This product can expose you to chemicals including tetrahydrofuran, Titanium dioxide, which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov

## **Additional State Regulatory Information**

Not Applicable

## **National Inventory Status**

National Inventory	Status
USA - TSCA	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

## **SECTION 16 Other information**

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Initial Date	03/27/2024

## Other information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

## **Definitions and abbreviations**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- ► TEEL: Temporary Emergency Exposure Limit。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- ▶ OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- ▶ LOD: Limit Of Detection
- ▶ OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List

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## **Orange Lava CPVC Cut-In Cement**

- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- ▶ NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ► NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ► TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances