### SAFETY DATA SHEET

#### 1. Identification

**Product identifier Oatey PVC Flexible Clear Cement** 

Other means of identification

1108C SDS number

**Synonyms** Part Numbers: 30875(TV), 30879, 31475

Recommended use Joining PVC Pipes

**Recommended restrictions** None known.

> Distributor Manufacturer

Oatey Canada Supply Chain Services Co. **Company Name** Oatey Co.

145 Walker Drive Address 4700 West 160th St.

> Brampton, ON L6T 5P5, Canada Cleveland, OH 44135

**Telephone** 216-267-7100 E-mail info@oatey.com

Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887) **Transport Emergency** 

**Emergency First Aid** 1-877-740-5015 **Contact person** MSDS Coordinator

#### 2. Hazard(s) identification

**Physical hazards** Flammable liquids Category 2

> Physical hazards not otherwise classified Category 1 Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1 Health hazards not otherwise classified Category 1

**Environmental hazards** Not classified.

Label elements

**Health hazards** 



Signal word Danger

**Hazard statement** Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters

airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May

cause drowsiness or dizziness.

**Precautionary statement** 

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed. Ground/bond container and receiving equipment. Use

explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective

gloves/protective clothing/eye protection/face protection.

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Response IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair):

Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. Take off contaminated clothing and wash it before reuse. In case of fire:

Use appropriate media to extinguish.

Storage Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

May form explosive peroxides.

**Supplemental information** Not applicable.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Furan, Tetrahydro-	109-99-9	30-50
Acetone	67-64-1	20-40
Polyvinyl chloride	9002-86-2	12-20
Cyclohexanone	108-94-1	7-13
Bis(2-ethylhexyl) terephthalate	6422-86-2	4-5
Silica, amorphous, fumed	112945-52-5	1-5

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Skin contact Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin

irritation occurs: Get medical advice/attention.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion** Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs. Aspiration may cause

pulmonary edema and pneumonitis.

Most important symptoms/effects, acute and

delayed

media

Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen, Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** 

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

equipment/instructions

Alcohol resi

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

of ignition and flash back. During fire, gases hazardous to health may be formed.

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source

Special protective equipment

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

and precautions for firefighters
Fire fighting

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

so without risk.

**Specific methods**Use standard firefighting procedures and consider the hazards of other involved materials.

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Highly flammable liquid and vapor. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

## Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

#### **Environmental precautions**

# 7. Handling and storage Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm	
,	TWA	20 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	100 ppm	
,	TWA	50 ppm	
Polyvinyl chloride (CAS 9002-86-2)	TWA	3 mg/m3	Respirable particles.

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value Form
Acetone (CAS 67-64-1)	STEL	1800 mg/m3
		750 ppm
	TWA	1200 mg/m3
		500 ppm
Cyclohexanone (CAS 108-94-1)	STEL	200 mg/m3

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Components	Туре	Value	Form
	. , , , ,		
	T\A/A	50 ppm	
	TWA	80 mg/m3	
		20 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	295 mg/m3	
100 00-01		100 ppm	
	TWA	147 mg/m3	
	1 4 4 / 1	50 ppm	
Polygipyl oblorida (CAS	T\\/\	3 mg/m3	Dognirable sertials
Polyvinyl chloride (CAS 9002-86-2)	TWA	s mg/ms	Respirable particles.
•		10 mg/m3	Total particulate.
Canada. British Columbia OELs. Safety Regulation 296/97, as ame		s for Chemical Substances, O	ccupational Health and
		W=1.	Form
Components	Туре	Value	FUIII
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm	
100 07 1)	TWA	20 ppm	
Furan Totrobydro (CAC	STEL		
Furan, Tetrahydro- (CAS 109-99-9)		100 ppm	
	TWA	50 ppm	
Polyvinyl chloride (CAS	TWA	3 mg/m3	Respirable fraction.
9002-86-2)		10 mg/m3	Total dust.
		io mg/mo	. J.a. augl.
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Canada. Manitoba OELs (Reg. 21	7/2006, The Workplace Safety	And Health Act)	
	7/2006, The Workplace Safety  Type	And Health Act)  Value	Form
Components		•	Form
Components	Туре	Value	Form
Components Acetone (CAS 67-64-1)	<b>Type</b> STEL	Value 500 ppm	Form
Canada. Manitoba OELs (Reg. 21 Components Acetone (CAS 67-64-1) Cyclohexanone (CAS 108-94-1)	<b>Type</b> STEL TWA	<b>Value</b> 500 ppm 250 ppm	Form
Components Acetone (CAS 67-64-1) Cyclohexanone (CAS	<b>Type</b> STEL TWA	<b>Value</b> 500 ppm 250 ppm	Form
Components Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)	Type STEL TWA STEL	Value 500 ppm 250 ppm 50 ppm	Form
Components Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS	Type STEL TWA STEL TWA	<b>Value</b> 500 ppm 250 ppm 50 ppm	Form
Components Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS	Type STEL TWA STEL TWA	Value 500 ppm 250 ppm 50 ppm 20 ppm 100 ppm	Form
Components Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)	Type  STEL  TWA  STEL  TWA  STEL  TWA	Value 500 ppm 250 ppm 50 ppm 20 ppm 100 ppm	
Components  Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)  Polyvinyl chloride (CAS	Type STEL TWA STEL TWA STEL	Value 500 ppm 250 ppm 50 ppm 20 ppm 100 ppm	Form  Inhalable particles.
Components Acetone (CAS 67-64-1) Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Polyvinyl chloride (CAS 9002-86-2)	Type  STEL  TWA  STEL  TWA  STEL  TWA  STEL  TWA  TWA	Value 500 ppm 250 ppm 50 ppm 100 ppm 50 ppm 100 mg/m3	
Components Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)  Polyvinyl chloride (CAS 9002-86-2)  Canada. Ontario OELs. (Control of	Type  STEL  TWA  STEL  TWA  STEL  TWA  STEL  TWA  TWA	Value 500 ppm 250 ppm 50 ppm 100 ppm 50 ppm 100 mg/m3	
Components Acetone (CAS 67-64-1) Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Polyvinyl chloride (CAS 9002-86-2) Canada. Ontario OELs. (Control of Components	Type  STEL  TWA  STEL  TWA  STEL  TWA  STEL  TWA  TWA  TWA  TWA	Value  500 ppm 250 ppm 50 ppm 100 ppm 50 ppm 100 mg/m3  hemical Agents)	Inhalable particles.
Components Acetone (CAS 67-64-1) Cyclohexanone (CAS	Type  STEL  TWA  STEL  TWA  STEL  TWA  TWA  TWA  TWA  TWA  TWA  TYPE	Value  500 ppm 250 ppm 50 ppm 100 ppm 50 ppm 100 mg/m3  hemical Agents)  Value  750 ppm	Inhalable particles.
Components  Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)  Polyvinyl chloride (CAS 9002-86-2)  Canada. Ontario OELs. (Control of Components  Acetone (CAS 67-64-1)	Type  STEL  TWA  STEL  TWA  STEL  TWA  TWA  TWA  TWA  TWA  STEL  TWA  TWA  TWA  TWA  TWA  TYPE  STEL  TWA	Value  500 ppm 250 ppm 50 ppm 100 ppm 50 ppm 10 mg/m3  hemical Agents)  Value  750 ppm 500 ppm	Inhalable particles.
Components Acetone (CAS 67-64-1) Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Polyvinyl chloride (CAS 9002-86-2) Canada. Ontario OELs. (Control of Components Acetone (CAS 67-64-1) Cyclohexanone (CAS	Type  STEL  TWA  STEL  TWA  STEL  TWA  TWA  TWA  TWA  TWA  TWA  TWA  STEL  TWA  TWA  TWA  TWA  STEL  TWA  TWA  TWA  TWA  TYPE  STEL	Value  500 ppm 250 ppm 50 ppm 100 ppm 50 ppm 100 mg/m3  hemical Agents)  Value  750 ppm	Inhalable particles.
Components Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)  Polyvinyl chloride (CAS 9002-86-2)  Canada. Ontario OELs. (Control of Components	Type  STEL  TWA  STEL  TWA  STEL  TWA  TWA  TWA  TWA  TWA  STEL  TWA  TWA  TWA  TWA  TWA  TYPE  STEL  TWA	Value  500 ppm 250 ppm 50 ppm 100 ppm 50 ppm 10 mg/m3  hemical Agents)  Value  750 ppm 500 ppm	Inhalable particles.
Components Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)  Polyvinyl chloride (CAS 9002-86-2)  Canada. Ontario OELs. (Control of Components  Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)	Type  STEL  TWA  STEL  TWA  STEL  TWA  TWA  TWA  TWA  TWA  STEL  Type  STEL  TWA  STEL  STEL  STEL  STEL  STEL  STEL  TWA	Value  500 ppm 250 ppm 50 ppm 100 ppm 50 ppm 10 mg/m3  hemical Agents)  Value  750 ppm 500 ppm 500 ppm 500 ppm	Inhalable particles.
Components Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)  Polyvinyl chloride (CAS 9002-86-2)  Canada. Ontario OELs. (Control of Components)  Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS	Type  STEL  TWA  STEL  TWA  STEL  TWA  TWA  TWA  TWA  TWA  TWA  TYPE  STEL  TWA  STEL  TWA  STEL  TWA  STEL  TWA  STEL  TWA	Value  500 ppm 250 ppm 50 ppm 100 ppm 50 ppm 10 mg/m3  hemical Agents)  Value  750 ppm 500 ppm 500 ppm 50 ppm 20 ppm	Inhalable particles.
Components  Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)  Polyvinyl chloride (CAS 9002-86-2)  Canada. Ontario OELs. (Control of Components  Acetone (CAS 67-64-1)  Cyclohexanone (CAS	Type  STEL  TWA  STEL  TWA  STEL  TWA  TWA  TWA  TWA  TWA  TWA  TYPE  STEL  TWA  STEL  TWA  STEL  TWA  STEL  TWA  STEL  TWA	Value  500 ppm 250 ppm 50 ppm 100 ppm 50 ppm 10 mg/m3  hemical Agents)  Value  750 ppm 500 ppm 500 ppm 50 ppm 20 ppm	Inhalable particles.
Components Acetone (CAS 67-64-1) Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Polyvinyl chloride (CAS 9002-86-2) Canada. Ontario OELs. (Control of Components Acetone (CAS 67-64-1) Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9)	Type  STEL  TWA  STEL  TWA  STEL  TWA  TWA  TWA  TWA  TWA  TWA  TYPE  STEL  TWA  STEL  TWA  STEL  TWA  STEL  TWA  STEL  TWA  STEL  TWA  STEL	Value  500 ppm 250 ppm 50 ppm 100 ppm 50 ppm 10 mg/m3  hemical Agents)  Value  750 ppm 500 ppm 500 ppm 50 ppm 20 ppm 100 ppm	Inhalable particles.
Components Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)  Polyvinyl chloride (CAS 9002-86-2)  Canada. Ontario OELs. (Control of Components)  Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)  Polyvinyl chloride (CAS	Type  STEL TWA STEL TWA STEL  TWA TWA  Of Exposure to Biological or Cl  Type  STEL TWA STEL	Value  500 ppm 250 ppm 50 ppm 100 ppm 100 mg/m3  hemical Agents)  Value  750 ppm 500 ppm 500 ppm 500 ppm 20 ppm 100 ppm 50 ppm 50 ppm 100 ppm 100 ppm 100 ppm	Inhalable particles. Form
Components Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)  Polyvinyl chloride (CAS 9002-86-2)  Canada. Ontario OELs. (Control of Components)  Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS	Type  STEL TWA STEL TWA STEL  TWA TWA  Of Exposure to Biological or Cl  Type  STEL TWA STEL	Value  500 ppm 250 ppm 50 ppm 100 ppm 50 ppm 10 mg/m3  hemical Agents)  Value  750 ppm 500 ppm	Inhalable particles. Form
Components Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)  Polyvinyl chloride (CAS 9002-86-2)  Canada. Ontario OELs. (Control of Components)  Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)  Polyvinyl chloride (CAS	Type  STEL  TWA  STEL  TWA  STEL  TWA  TWA  TWA  Of Exposure to Biological or Cl  Type  STEL  TWA  STEL	Value  500 ppm 250 ppm 50 ppm 100 ppm 50 ppm 10 mg/m3  hemical Agents)  Value  750 ppm 500 ppm 500 ppm 500 ppm 50 ppm 100 ppm 50 ppm 100 ppm	Inhalable particles.  Form  Respirable particles. Inhalable
Components Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)  Polyvinyl chloride (CAS 9002-86-2)  Canada. Ontario OELs. (Control of Components)  Acetone (CAS 67-64-1)  Cyclohexanone (CAS 108-94-1)  Furan, Tetrahydro- (CAS 109-99-9)  Polyvinyl chloride (CAS 9002-86-2)	Type  STEL TWA STEL TWA STEL TWA TWA TWA  Of Exposure to Biological or Cl Type  STEL TWA STEL	Value  500 ppm 250 ppm 50 ppm 100 ppm 100 mg/m3  hemical Agents)  Value  750 ppm 500 ppm 500 ppm 500 ppm 500 ppm 100 ppm 50 ppm 100 ppm 100 ppm 100 ppm 100 ppm 100 ppm 100 ppm 3 mg/m3 10 mg/m3  ting the Quality of the Work En	Inhalable particles.  Form  Respirable particles. Inhalable
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#### Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Туре	Value	Form
		500 ppm	
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m3	
		25 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	TWA	300 mg/m3	
		100 ppm	
Polyvinyl chloride (CAS 9002-86-2)	TWA	10 mg/m3	Total dust.

#### **Biological limit values**

#### **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*	
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexan ediol, with hydrolysis	Urine	*	
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*	
Furan, Tetrahydro- (CAS 109-99-9)	2 mg/l	Tetrahydrofura n	Urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

#### Canada - Alberta OELs: Skin designation

Cyclohexanone (CAS 108-94-1)	Can be absorbed through the skin.
Furan, Tetrahydro- (CAS 109-99-9)	Can be absorbed through the skin.

#### Canada - British Columbia OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin. Furan, Tetrahydro- (CAS 109-99-9) Can be absorbed through the skin. Canada - Manitoba OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin. Furan, Tetrahydro- (CAS 109-99-9) Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin. Furan, Tetrahydro- (CAS 109-99-9) Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin. Furan, Tetrahydro- (CAS 109-99-9) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin. Furan, Tetrahydro- (CAS 109-99-9) Can be absorbed through the skin.

#### Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Other Wear appropriate chemical resistant clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

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Thermal hazards Wear appropriate thermal protective clothing, when necessary.

**General hygiene** considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash

work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

**Form** Translucent liquid.

Color Clear. Solvent. Odor Odor threshold Not available. Not available. Not available. Melting point/freezing point 151 °F (66.11 °C)

Initial boiling point and boiling

range

14.0 - 23.0 °F (-10.0 - -5.0 °C) Flash point

**Evaporation rate** 5.5 - 8 Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Flammability limit - upper

11.8

1.8

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

145 mm Hg @ 20 C Vapor pressure

Vapor density

Relative density 0.92 + / - 0.02

Solubility(ies)

Solubility (water) Negligible Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. 1200 - 2500 cP **Viscosity** Viscosity temperature 77 °F (25 °C)

Other information

**Bulk density** 7.7 lb/gal

VOC (Weight %) < 510 g/I SQACMD 1168/M316A

#### 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics.

Hazardous decomposition

products

No hazardous decomposition products are known.

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#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May be fatal if swallowed and enters airways. May cause irritation to the respiratory system.

Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Prolonged inhalation may be harmful.

Causes skin irritation. Skin contact

Eye contact Causes serious eye irritation.

May be fatal if swallowed and enters airways. Harmful if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting.

#### Information on toxicological effects

**Acute toxicity** May be fatal if swallowed and enters airways. Narcotic effects. May cause respiratory irritation.

Components	Species	Test Results
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Rabbit	20 ml/kg
Inhalation		
LC50	Rat	50 mg/l, 8 Hours
Oral		
LD50	Rat	5800 mg/kg
Cyclohexanone (CAS 108-9	94-1)	
Acute		
Dermal		
LD50	Rabbit	948 mg/kg
Inhalation		
LC50	Rat	8000 ppm, 4 hours
Oral		
LD50	Rat	800 mg/kg

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity

In 2012 USEPA Integrated Risk Information System (IRIS) reviewed a two species inhalation lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is "suggestive evidence of carcinogenic potential" following exposure to THF by all routes of exposure. This product contains polyvinyl chloride (PVC) that is not a fabricated product, and is therefore, defined and regulated as a toxic and hazardous substance under 29 C.F.R. § 1910.1017 due to the presumed presence of residual vinyl chloride monomer. The concentrations of residual vinyl chloride calculated to be contained in this product are well below the threshold for classification in accordance with 29 C.F.R. § 1910.1200.

#### **ACGIH Carcinogens**

Acetone (CAS 67-64-1)

A4 Not classifiable as a human carcinogen.

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Cyclohexanone (CAS 108-94-1)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

Furan, Tetrahydro- (CAS 109-99-9)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

Polyvinyl chloride (CAS 9002-86-2)

A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

ACETONE (CAS 67-64-1) Not classifiable as a human carcinogen.

CYCLOHEXANONE (CAS 108-94-1) Confirmed animal carcinogen with unknown relevance to humans.

POLYVINYL CHLORIDE (PVC), RESPIRABLE Not classifiable as a human carcinogen.

FRACTION (CAS 9002-86-2)

TETRAHYDROFURAN (CAS 109-99-9) Confirmed animal carcinogen with unknown relevance to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1)

Polyvinyl chloride (CAS 9002-86-2)

Silica, amorphous, fumed (CAS 112945-52-5)

3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Narcotic effects. Respiratory tract irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Chronic effects** Prolonged inhalation may be harmful.

**Further information** Symptoms may be delayed.

#### 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

Acetone (CAS 67-64-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Cyclohexanone (CAS 108-94-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 481 - 578 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Acetone (CAS 67-64-1) -0.24 Cyclohexanone (CAS 108-94-1) 0.81 Furan, Tetrahydro- (CAS 109-99-9) 0.46

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

#### Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

**TDG** 

UN1133 **UN** number **UN** proper shipping name Adhesives

Transport hazard class(es)

Class 3 Subsidiary risk Ш Packing group **Environmental hazards** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN1133 **UN** number Adhesives **UN** proper shipping name

Transport hazard class(es)

Class 3 Subsidiary risk Packing group Ш **Environmental hazards** No. **ERG Code** 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN** number UN1133 **UN** proper shipping name Adhesives

Transport hazard class(es)

3 Class Subsidiary risk Ш Packing group **Environmental hazards** 

Marine pollutant No. F-E. S-D **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

#### 15. Regulatory information

This product has been classified in accordance with the hazard criteria of the HPR and the SDS Canadian regulations

contains all the information required by the HPR.

**Controlled Drugs and Substances Act** 

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Acetone (CAS 67-64-1) Class B

International regulations

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

**Kyoto protocol** 

Not applicable.

**Montreal Protocol** 

Not applicable.

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#### **Basel Convention**

Not applicable.

#### **International Inventories**

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other Information

**Issue date** 21-December-2015

Revision date - 01

Disclaimer Oatey Co. cannot anticipate all conditions under which this information and its product, or the

products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

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