# HERCULES

# SAFETY DATA SHEET

# 1. Identification

Product identifier HERCULES PVC Cement Clear Medium Body, Medium Set

Other means of identification

Product code MSDS #92

**Synonyms** Part Numbers: 60003, 60013, 60015, 60020, 60025 Export Part Numbers: 60003E, 60013E,

60015E, 60020E, 60025E

Recommended use Joining PVC Pipes
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name HCC Holdings, Inc. an Oatey Affiliate

Address 4700 West 160th Street

Cleveland, OH 44135

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

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

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

# 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 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

OSHA defined hazards Not classified.

Label elements



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/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. 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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If swallowed: Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all Response

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep 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/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated

clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

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

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

Hazard(s) not otherwise Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. classified (HNOC) May form explosive peroxides. Contains a chemical classified by the US EPA as a suspected

possible carcinogen.

Supplemental information

Not applicable.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Furan, Tetrahydro-	109-99-9	40-60
Methyl ethyl ketone	78-93-3	10-25
Polyvinyl chloride	9002-86-2	10-20
Acetone	67-64-1	7-15
Cyclohexanone	108-94-1	5-15
Silica, amorphous, fumed	112945-52-5	1-5

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 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.

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

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

Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water

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,

immediately. While flushing, remove clothes which do not adhere to affected area. Call an

oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the

material(s) involved, and take precautions to protect themselves. Wash contaminated clothing

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

dizziness and nausea. Skin irritation. May cause redness and pain.

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

pulmonary edema and pneumonitis.

before reuse.

Most important symptoms/effects, acute and

delayed

Indication of immediate

medical attention and special treatment needed

**General information** 

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

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

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

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

HERCULES PVC Cement Clear Medium Body, Medium Set 927387 Version #: 01 Revision date: - Issue date: 27-May-2015 Fire fighting equipment/instructions Specific methods General fire hazards

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

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

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. Use water spray to reduce vapors or divert vapor cloud drift. 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. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

# 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 a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Туре	Value			
Polyvinyl chloride (CAS 9002-86-2)	STEL	5 ppm			
	TWA	1 ppm			
IIS OSHA Toble 7.1 Limite for Air Conteminante (20 CEP 1010 1000)					

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value Form
Acetone (CAS 67-64-1)	PEL	2400 mg/m3
		1000 ppm
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3
•		50 ppm
Furan, Tetrahydro- (CAS 109-99-9)	PEL	590 mg/m3
,		200 ppm
Methyl ethyl ketone (CAS 78-93-3)	PEL	590 mg/m3

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# US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Silica, amorphous, fumed (CAS 112945-52-5)	Components	Туре	!		/alue	Form
15 mg/m3   Total dust.					• •	
US. OSHA Table Z-3 (29 CFR 1910.1000)  Components Type		PEL		5	5 mg/m3	Respirable fraction.
No. OSHA Table 2-3 (29 CFR 1910-1000)   Somponents   Type	9002-00-2)			1	5 ma/m3	Total dust
Silica, amorphous, fumed   CAS 112945-52-5)   20 mppcf   20 mppc	US. OSHA Table Z-3 (29 (	CFR 1910.1000)		'	o mg/mo	Total dust.
CAS 112945-52-5)   20 mppcf   US. ACGIH Threshold Limit Values   Form	Components	Туре	r	\	/alue	
20 mppcf   10   10   10   10   10   10   10   1	Silica, amorphous, fumed	TWA		(	).8 mg/m3	
Components   Type   Value   Form	(CAS 112945-52-5)			2	0 mppcf	
Acetone (CAS 67-64-1) Acetone (CAS 67-64-1) Acetone (CAS 67-64-1) STEL TWA 500 ppm  Cyclohexanone (CAS STEL 50 ppm  Furan, Tetrahydro- (CAS STEL 100 ppm  TWA 50 ppm  Methyl ethyl ketone (CAS STEL 300 ppm  TWA 50 ppm  Methyl ethyl ketone (CAS STEL 300 ppm  Polyvinyl chloride (CAS TWA 200 ppm  Polyvinyl chloride (CAS TWA 200 ppm  Polyvinyl chloride (CAS TWA 1 mg/m3 Respirable fraction.  Respirable fraction.  Type Value  Acetone (CAS 67-64-1) TWA 590 mg/m3 250 ppm  Cyclohexanone (CAS TWA 100 mg/m3 108-94-1)  TWA 590 mg/m3 250 ppm  TWA 590 mg/m3 250 ppm  TWA 590 mg/m3 300 ppm  TWA 590 mg/m3 Acetone CAS TEL 885 mg/m3  TWA 590 mg/m3 Acetone CAS TEL CACENDEN CACENDEN CAS TEL CACENDEN CACEN	US. ACGIH Threshold Lir	mit Values				
TWA   500 ppm   108-94-1)   TWA   20 ppm   109-99-9)   TWA   20 ppm   109-99-9)   TWA   500 ppm   109-99-9)   TWA   109-99-90   TW	Components	Туре		\	/alue	Form
Cyclohexanone (CAS   STEL   50 ppm   108-94-1)   TWA   20 ppm   108-94-1)   TWA   20 ppm   109-99-9)   TWA   50 ppm   300 pp	Acetone (CAS 67-64-1)	STEL	=	7	'50 ppm	
TWA					• •	
TWA	Cyclohexanone (CAS 108-94-1)	STEL	-	5	60 ppm	
TWA	,	TWA		2	20 ppm	
TWA   50 ppm   STEL   300 ppm   Respirable fraction.   STEL	Furan, Tetrahydro- (CAS 109-99-9)	STEL	-	1	00 ppm	
TWA   200 ppm   1 mg/m3   Respirable fraction.   200 ppm   200 p		TWA		5	60 ppm	
TWA 200 ppm 1 mg/m3 Respirable fraction. 2002-86-2)  US. NIOSH: Pocket Guide to Chemical Hazards  Components Type Value  Acetone (CAS 67-64-1) TWA 590 mg/m3 250 ppm 100 mg/m3 1008-94-1)  Furan, Tetrahydro- (CAS STEL 735 mg/m3 1009-99-9)  TWA 590 mg/m3 200 ppm 100 ppm 10	Methyl ethyl ketone (CAS 78-93-3)	STEL	-	3	800 ppm	
Polyvinyl chloride (CAS   TWA   1 mg/m3   Respirable fraction.	. 5 55 5,	TWA		2	200 ppm	
Components   Type   Value	Polyvinyl chloride (CAS 9002-86-2)	TWA				Respirable fraction.
Acetone (CAS 67-64-1)  Acetone (CAS 67-64-1)  TWA  590 mg/m3 250 ppm 100 mg/m3 100 mg/m3 100 mg/m3 25 ppm  Furan, Tetrahydro- (CAS 109-99-9)  TWA  590 mg/m3 25 ppm 735 mg/m3 250 ppm 250 ppm 735 mg/m3 200 ppm 250 ppm  TWA 590 mg/m3 200 ppm 300 ppm 300 ppm 300 ppm 590 mg/m3 200 ppm  TWA 590 mg/m3 200 ppm  Acetone (CAS 67-64-1) 50 mg/l Acetone Urine * Cyclohexanone (CAS 1,2-Cyclohexan ediol, with hydrolysis 8 mg/l Cyclohexanol, Urine *	•	e to Chemical Hazards				
Cyclohexanone (CAS   TWA   100 mg/m3   1	Components	Туре		١	/alue	
TWA	Acetone (CAS 67-64-1)	TWA		5	590 mg/m3	
108-94-1)					• •	
Furan, Tetrahydro- (CAS   STEL   25 ppm   735 mg/m3   109-99-9)   250 ppm	Cyclohexanone (CAS 108-94-1)	TWA		1	00 mg/m3	
TWA 590 mg/m3 200 ppm  Methyl ethyl ketone (CAS STEL 885 mg/m3 78-93-3)  TWA 590 mg/m3 200 ppm  TWA 6 mg/m3 (CAS 112945-52-5)  Exercised Limit values  ACGIH Biological Exposure Indices  Components Value Determinat Specimen Sampling Time  ACECTON (CAS 67-64-1) 50 mg/l Acetone Urine *  Cyclohexanone (CAS 80 mg/l 1,2-Cyclohexan ediol, with hydrolysis 8 mg/l Cyclohexanol, Urine *	,				• •	
TWA   590 mg/m3   200 ppm   STEL   885 mg/m3   300 ppm   TWA   590 mg/m3   200 ppm   STEL   885 mg/m3   STEL   S	Furan, Tetrahydro- (CAS 109-99-9)	STEL	-	7	'35 mg/m3	
Methyl ethyl ketone (CAS 78-93-3)  Methyl ethyl ketone (CAS 78-93-3)  TWA 590 mg/m3 200 ppm  TWA 590 mg/m3 200 ppm  Silica, amorphous, fumed (CAS 112945-52-5)  Ogical limit values  ACGIH Biological Exposure Indices  Components Value Determinant Specimen Sampling Time  Acetone (CAS 67-64-1) 50 mg/l Acetone Urine *  Cyclohexanone (CAS 80 mg/l 1,2-Cyclohexan ediol, with hydrolysis ediol, with hydrolysis  8 mg/l Cyclohexanol, Urine *	•					
Methyl ethyl ketone (CAS 78-93-3)    Methyl ethyl ketone (CAS 78-93-3)		TWA				
78-93-3)  TWA  300 ppm  590 mg/m3  200 ppm  6 mg/m3  (CAS 112945-52-5)  cogical limit values  ACGIH Biological Exposure Indices  Components  Value  Determinant  Acetone (CAS 67-64-1)  Cyclohexanone (CAS 80 mg/l  1,2-Cyclohexan  ediol, with hydrolysis  8 mg/l  Cyclohexanol,  Urine  *		_				
TWA 590 mg/m3 200 ppm Silica, amorphous, fumed (CAS 112945-52-5) Origical limit values ACGIH Biological Exposure Indices  Components Value Determinant Specimen Sampling Time  Acetone (CAS 67-64-1) 50 mg/l Acetone Urine *  Cyclohexanone (CAS 80 mg/l 1,2-Cyclohexan ediol, with hydrolysis 8 mg/l Cyclohexanol, Urine *	Methyl ethyl ketone (CAS 78-93-3)	STEL	-		J	
Silica, amorphous, fumed (CAS 112945-52-5)  Origical limit values  ACGIH Biological Exposure Indices  Components Value Determinant Specimen Sampling Time  Acetone (CAS 67-64-1) 50 mg/l Acetone  Cyclohexanone (CAS 80 mg/l 1,2-Cyclohexan ediol, with hydrolysis 8 mg/l Cyclohexanol, Urine *						
Silica, amorphous, fumed (CAS 112945-52-5)  ogical limit values  ACGIH Biological Exposure Indices  Components Value Determinant Specimen Sampling Time  Acetone (CAS 67-64-1) 50 mg/l Acetone  Cyclohexanone (CAS 80 mg/l 1,2-Cyclohexan ediol, with hydrolysis 8 mg/l Cyclohexanol, Urine *		TWA			•	
CAS 112945-52-5)  ogical limit values  ACGIH Biological Exposure Indices  Components Value Determinant Specimen Sampling Time  Acetone (CAS 67-64-1) 50 mg/l Acetone Urine *  Cyclohexanone (CAS 80 mg/l 1,2-Cyclohexan ediol, with hydrolysis 8 mg/l Cyclohexanol, Urine *	Oiline and I to the				• •	
ACGIH Biological Exposure Indices  Components  Value  Determinant  Specimen  Sampling Time  Acetone (CAS 67-64-1) 50 mg/l  Cyclohexanone (CAS 80 mg/l  1,2-Cyclohexan ediol, with hydrolysis  8 mg/l  Cyclohexanol,  Urine  *  Urine  *  Urine  *	Silica, amorphous, fumed (CAS 112945-52-5)	TWA		6	5 mg/m3	
Components  Value  Determinant  Specimen  Sampling Time  Acetone (CAS 67-64-1)  Cyclohexanone (CAS  80 mg/l  1,2-Cyclohexan ediol, with hydrolysis  8 mg/l  Cyclohexanol,  Urine  *  Urine  *  Urine  *  Urine  *  Urine  *	ogical limit values					
Acetone (CAS 67-64-1) 50 mg/l Acetone Urine *  Cyclohexanone (CAS 80 mg/l 1,2-Cyclohexan Urine * 108-94-1) ediol, with hydrolysis 8 mg/l Cyclohexanol, Urine *	ACGIH Biological Exposi	ure Indices				
Cyclohexanone (CAS 80 mg/l 1,2-Cyclohexan Urine * 108-94-1) ediol, with hydrolysis 8 mg/l Cyclohexanol, Urine *	Components					•
ediol, with hydrolysis 8 mg/l Cyclohexanol, Urine *	Acetone (CAS 67-64-1)	<u> </u>				
8 mg/l Cyclohexanol, Urine *	Cyclohexanone (CAS 108-94-1)	80 mg/l	ediol, with	Urine	*	
		0 ma/l		l Jein a	*	
		o mg/i		Ullile		

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

Components	Value	Determinant	Specimen	Sampling Time	
Furan, Tetrahydro- (CAS 109-99-9)	2 mg/l	Tetrahydrofura n	Urine	*	
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*	

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

# **Exposure guidelines**

US - California OELs: Skin designation

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

US - Minnesota Haz Subs: Skin designation applies

Cyclohexanone (CAS 108-94-1) Skin designation applies.

**US - Tennessee OELs: Skin designation** 

Cyclohexanone (CAS 108-94-1) 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.

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Cyclohexanone (CAS 108-94-1) 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 Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

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

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.

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.

Transparent liquid. **Form** 

Color Clear. Odor Solvent. Not available. **Odor threshold** Not available. рH Melting point/freezing point Not available. 151 °F (66.11 °C) Initial boiling point and boiling

range

6.0 °F (-14.4 °C) Based on THF Flash point

**Evaporation rate** 7 - 11

Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower 1.8

Flammability limit - upper

(%)

Explosive limit - lower (%) Not available.

11.8

Explosive limit - upper (%) Not available.

Vapor pressure 143 mm Hg @ 20 C

Vapor density 2 - 2.5 Relative density 0.91 +/- 0.02

Solubility(ies)

Solubility (water) Negligible **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. 80 - 500 cP **Viscosity** 

Other information

**Bulk density** 7.6 lb/gal

VOC (Weight %) 484 g/l SCAQMD 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.

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

flash point. Contact with incompatible materials.

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

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May be fatal if swallowed and enters airways. Headache. Nausea, vomiting. 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.

Skin contact Causes skin irritation.

**Eve contact** Causes serious eye irritation.

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

of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Species

Symptoms related to the physical, chemical and toxicological characteristics

Components

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. Skin irritation. May cause redness and pain. Symptoms of

Test Results

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.

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

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**Species Test Results** Components

Cyclohexanone (CAS 108-94-1)

Acute

Dermal

LD50 Rabbit 948 mg/kg

Inhalation

LC50 Rat 8000 ppm, 4 hours

Oral

LD50 Rat 1540 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Not available. Respiratory sensitization

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

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

mutagenic or genotoxic.

In 2012 USEPA Integrated Risk Information System (IRIS) reviewed a two species inhalation Carcinogenicity

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.

# IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1) 3 Not classifiable as to carcinogenicity to humans. Polyvinyl chloride (CAS 9002-86-2) 3 Not classifiable as to carcinogenicity to humans. Silica, amorphous, fumed (CAS 112945-52-5) 3 Not classifiable as to carcinogenicity to humans.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Polyvinyl chloride (CAS 9002-86-2) Cancer

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

Specific target organ toxicity -

single exposure

Narcotic effects. May cause drowsiness and dizziness. Respiratory tract irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

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

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

# 12. Ecological information

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

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

LC50 Fish 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.

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

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

Partition coefficient n-octanol / water (log Kow)

Acetone (CAS 67-64-1) -0.24Cyclohexanone (CAS 108-94-1) 0.81 Furan, Tetrahydro- (CAS 109-99-9) 0.46 Methyl ethyl ketone (CAS 78-93-3) 0.29

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

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

> 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.

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

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).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

DOT

**UN** number UN1993

**UN proper shipping name** 

Transport hazard class(es)

Flammable liquids, n.o.s. (Methyl ethyl ketone RQ = 32446 LBS, Acetone RQ = 37147 LBS)

Class 3 Subsidiary risk 3 Label(s) **Packing group** Ш

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

IB2, T7, TP1, TP8, TP28 Special provisions

Packaging exceptions 150 202 Packaging non bulk Packaging bulk 242

IATA

**UN** number UN1993

**UN** proper shipping name

Transport hazard class(es)

Flammable liquid, n.o.s. (Methyl ethyl ketone, Acetone)

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

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

**IMDG** 

**UN number** UN1993

FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone, Acetone) **UN proper shipping name** 

Transport hazard class(es)

Class 3 Subsidiary risk **Packing group** Ш

**Environmental hazards** 

Marine pollutant No. F-E. S-E

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

HERCULES PVC Cement Clear Medium Body, Medium Set

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

Not available.

# 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Polyvinyl chloride (CAS 9002-86-2) Cancer

Central nervous system

Liver Blood Flammability

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

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

Methyl ethyl ketone (CAS 78-93-3)

LISTED

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

# SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

# SARA 313 (TRI reporting)

Not regulated.

# Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

# Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532 Methyl ethyl ketone (CAS 78-93-3) 6714

# Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV Methyl ethyl ketone (CAS 78-93-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number** 

Acetone (CAS 67-64-1) 6532 Methyl ethyl ketone (CAS 78-93-3) 6714

# **US state regulations**

# **US. Massachusetts RTK - Substance List**

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

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

# US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

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

Methyl ethyl ketone (CAS 78-93-3)

Polyvinyl chloride (CAS 9002-86-2)

# US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

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

Methyl ethyl ketone (CAS 78-93-3)

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

#### **US. Rhode Island RTK**

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

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

Methyl ethyl ketone (CAS 78-93-3)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryNo

# 16. Other information, including date of preparation or last revision

Issue date 27-May-2015

Revision date -

HMIS® ratings Health: 2

Flammability: 3 Physical hazard: 0

NFPA ratings

Version #



01

# Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. HCC Holdings Inc. an Oatey Affiliate 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.

HERCULES PVC Cement Clear Medium Body, Medium Set

<sup>\*</sup>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).