

# Hercules Shut Out HCC Holdings, Inc. an Oatey Affiliate

Version No: 1.3.6.8

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

Issue Date: **07/21/2021**Print Date: **07/21/2021**S.GHS.USA.EN

### **SECTION 1 Identification**

### **Product Identifier**

Product name	Hercules Shut Out
Chemical Name	Not Applicable
Synonyms	Not Available
Other means of identification	25420

# Recommended use of the chemical and restrictions on use

Relevant identified uses	Pipe thread sealant.
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# Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	HCC Holdings, Inc. an Oatey Affiliate	
Address	4700 West 160th Street Cleveland, OH 44135 United States	
Telephone	216-267-7100	
Fax	Not Available	
Website	Not Available	
Email	info@oatey.com	

# **Emergency phone number**

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

# SECTION 2 Hazard(s) identification

# Classification of the substance or mixture

Classification	Skin Sensitizer Category 1
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### Label elements

Hazard pictogram(s)



Version No: **1.3.6.8** Page **2** of **15** 

### **Hercules Shut Out**

Issue Date: **07/21/2021**Print Date: **07/21/2021** 

Signal	word	Warning
Signal	word	vvarring

# Hazard statement(s)

May cause an allergic skin reaction.

# Hazard(s) not otherwise classified

Not Applicable

# Precautionary statement(s) Prevention

Wear protective gloves.
Avoid breathing mist/vapours/spray.
Contaminated work clothing must not be allowed out of the workplace.

# Precautionary statement(s) Response

Wash contaminated clothing before reuse.
If on skin: Wash with plenty of water and soap.
If skin irritation or rash occurs: Get medical advice/attention.

# Precautionary statement(s) Storage

Not Applicable

# 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
1317-65-3*	45-70	calcium carbonate
64741-88-4.	15-40	paraffinic distillate, heavy, solvent-refined (severe)
1332-58-7*	7-13	<u>Kaolin</u>
8002-50-4	2.24	fish oil
14808-60-7*	<2	silica crystalline - quartz
64742-88-7	0.1-1	solvent naphtha petroleum, medium aliphatic.
12001-26-2*	0.1-1	<u>Mica</u>
13463-67-7*	0.1-1	<u>Titanium dioxide</u>
67-56-1	0.1-1	<u>methanol</u>
14464-46-1	0.1-1	cristobalite

### **SECTION 4 First-aid measures**

# Description of first aid measures

Eye Contact	If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, 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, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>

 Version No: 1.3.6.8
 Page 3 of 15
 Issue Date: 07/21/2021

 Print Date: 07/21/2021
 Print Date: 07/21/2021

#### **Hercules Shut Out**

Ingestion

- ► Immediately give a glass of water.
- ▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

### 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>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach 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> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.  CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns. Foaming may cause overflow of containers and may result in possible fire.

### **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	Slippery when spilt.  Clean up all spills immediately.  Avoid contact with skin and eyes.  Wear impervious gloves and safety goggles.  Trowel up/scrape up.  Place spilled material in clean, dry, sealed container.  Flush spill area with water.
Major Spills	Slippery when spilt.  Minor hazard.  Clear area of personnel.  Alert Fire Department and tell them location and nature of hazard.

Version No: 1.3.6.8 Issue Date: 07/21/2021 Page 4 of 15 Print Date: 07/21/2021

#### **Hercules Shut Out**

- ▶ Control personal contact with the substance, by using protective equipment as required.
- Prevent spillage from entering drains or water ways.
- ▶ Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labelled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.
- Wash area and prevent runoff into drains or waterways.
- 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

- 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.
- ▶ DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials.
- Safe handling
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- ▶ Work clothes should be laundered separately. Launder contaminated clothing before re-use.
- 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 are maintained.

# Other information

- ► Store in original containers.
- Keep containers securely sealed.
- ▶ Store in a cool, dry, well-ventilated area.
  - Store away from incompatible materials and foodstuff containers.
  - Protect containers against physical damage and check regularly for leaks.
  - ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

### Conditions for safe storage, including any incompatibilities

### Suitable container

- Metal can or drum
- Packaging as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

#### Storage incompatibility

CARE: Water in contact with heated material may cause foaming or a steam explosion with possible severe burns from wide scattering of hot material. Resultant overflow of containers may result in fire.

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-3	calcium carbonate	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	calcium carbonate	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	calcium carbonate	Marble- Total dust	15 mg/m3	Not Available	Not Available	Not Available

Page 5 of 15

#### **Hercules Shut Out**

Source Ingredient Material name TWA STEL Peak Notes US OSHA Permissible Not calcium Not Exposure Limits (PELs) Limestone- Respirable fraction 5 mg/m3 Not Available carbonate Available Available Table Z-1 US OSHA Permissible calcium Not Not Exposure Limits (PELs) Calcium Carbonate- Total dust Not Available 15 mg/m3 Available Available carbonate Table Z-1 US OSHA Permissible calcium Not Not Exposure Limits (PELs) Limestone- Total dust 15 mg/m3 Not Available Available Available carbonate Table Z-1 US OSHA Permissible calcium Calcium Carbonate- Respirable Not Not Exposure Limits (PELs) 5 mg/m3 Not Available Available Available carbonate fraction Table Z-1 US OSHA Permissible calcium Not Not Exposure Limits (PELs) Marble- Respirable fraction 5 mg/m3 Not Available Available Available carbonate Table 7-1 US NIOSH Recommended calcium Not Not Calcium carbonate - respirable 5 mg/m3 Not Available Available Exposure Limits (RELs) carbonate Available US NIOSH Recommended calcium Not Not Marble - respirable Not Available 5 mg/m3 Exposure Limits (RELs) carbonate Available Available US NIOSH Recommended calcium Not Not Limestone - respirable 5 mg/m3 Not Available Available Available Exposure Limits (RELs) carbonate US NIOSH Recommended calcium Not Not Marble - total 10 mg/m3 Not Available Exposure Limits (RELs) carbonate Available Available US NIOSH Recommended Not calcium Not Limestone - total 10 mg/m3 Not Available Available Exposure Limits (RELs) carbonate Available US NIOSH Recommended calcium Not Not 10 mg/m3 Calcium carbonate - total Not Available Exposure Limits (RELs) carbonate Available Available paraffinic US OSHA Permissible distillate, heavy, Not Not Oil mist, mineral Exposure Limits (PELs) 5 ma/m3 Not Available solvent-refined Available Available Table Z-1 (severe) paraffinic Mineral oil, excluding metal US ACGIH Threshold Limit distillate, heavy, working fluids - Pure, highly and Not Not 5 ma/m3 A4 Values (TLV) solvent-refined severely refined (Inhalable Available Available (severe) particulate matter) US OSHA Permissible Inert or Nuisance 5 mg/m3 / 15 Not Not Exposure Limits (PELs) Kaolin Not Available Available **Dust: Respirable fraction** Available mppcf Table Z-3 US OSHA Permissible Inert or Nuisance Dust: Total 15 mg/m3 / 50 Not Not Exposure Limits (PELs) Kaolin Not Available Dust mppcf Available Available Table 7-3 US OSHA Permissible Not Not Exposure Limits (PELs) Kaolin-Total dust Not Available Kaolin 15 mg/m3 Available Available Table Z-1 US OSHA Permissible Not Not Exposure Limits (PELs) Kaolin Kaolin-Respirable fraction 5 mg/m3 Not Available Available Available Table Z-1 US NIOSH Recommended Not Not Kaolin Kaolin - respirable 5 ma/m3 Not Available Available Exposure Limits (RELs) Available US NIOSH Recommended Not Not Kaolin Kaolin - total 10 mg/m3 Not Available Exposure Limits (RELs) Available Available US ACGIH Threshold Limit Kaolin (Respirable particulate Not Not Kaolin 2 mg/m3 A4 Available matter) Available Values (TLV) 10 (%SiO2+2) US OSHA Permissible silica crystalline -Silica: Crystalline: Quartz ma/m3 / 250 Not Not Exposure Limits (PELs) Not Available (%SiO2+5) Available Available quartz (Respirable) Table Z-3 mppcf Silica, crystalline (as respirable US NIOSH Recommended silica crystalline -Not Not 0.05 ma/m3 Ca; See Appendix A Available Available Exposure Limits (RELs) dust) quartz Silica, crystalline - α-quartz and US ACGIH Threshold Limit Not silica crystalline -Not 0.025 mg/m3

cristobalite (Respirable

particulate matter)

Values (TLV)

quartz

Issue Date: 07/21/2021

Print Date: 07/21/2021

A2

Available

Available

Version No: **1.3.6.8** Page **6** of **15** 

**Hercules Shut Out** 

Issue Date: **07/21/2021**Print Date: **07/21/2021** 

Causas	Ingradiant	Matarial name	TIA/A	CTEL	Dook	Natos
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	solvent naphtha petroleum, medium aliphatic.	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	solvent naphtha petroleum, medium aliphatic.	Mineral oil, excluding metal working fluids - Poorly and mildly refined	Not Available	Not Available	Not Available	A2
US ACGIH Threshold Limit Values (TLV)	solvent naphtha petroleum, medium aliphatic.	Mineral oil, excluding metal working fluids - Pure, highly and severely refined (Inhalable particulate matter)	5 mg/m3	Not Available	Not Available	A4
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Mica	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Mica	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Mica	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Mica	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Mica	Mica (containing less than 1% quartz)	3 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	Mica	Mica (Respirable particulate matter)	0.1 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Titanium dioxide	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Titanium dioxide	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Titanium dioxide	Titanium dioxide - Total dust	15 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Titanium dioxide	Titanium dioxide	Not Available	Not Available	Not Available	Ca; See Appendix A
US ACGIH Threshold Limit Values (TLV)	Titanium dioxide	Titanium dioxide	10 mg/m3	Not Available	Not Available	(A4)
US OSHA Permissible Exposure Limits (PELs) Table Z-1	methanol	Methyl alcohol	200 ppm / 260 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	methanol	Methyl alcohol	200 ppm / 260 mg/m3	325 mg/m3 / 250 ppm	Not Available	[skin]
US ACGIH Threshold Limit Values (TLV)	methanol	Methanol	200 ppm	250 ppm	Not Available	Skin; BEI
US OSHA Permissible Exposure Limits (PELs) Table Z-3	cristobalite	Silica: Crystalline: Cristobalite	Not Available	Not Available	Not Available	Use ½ the value calculated from the count or mass formulae for quartz.
US OSHA Permissible Exposure Limits (PELs) Table Z-1	cristobalite	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	cristobalite	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	cristobalite	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US ACGIH Threshold Limit Values (TLV)	cristobalite	Silica, crystalline - α-quartz and cristobalite (Respirable particulate matter)	0.025 mg/m3	Not Available	Not Available	A2

 Version No: 1.3.6.8
 Page 7 of 15
 Issue Date: 07/21/2021

 Print Date: 07/21/2021
 Print Date: 07/21/2021

#### **Hercules Shut Out**

**Exposure 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.

General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. 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:
solvent, vapours, degreasing etc., evaporating from tank (in still air)	0.25-0.5 m/s (50-100 f/min)
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 generat	'
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas disc (active generation into zone of rapid air motion)	charge 1-2.5 m/s (200-500 f/min)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocitors into zone of very high rapid air motion).	ocity 2.5-10 m/s (500-2000 f/min.)

# Appropriate engineering controls

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.

# Personal protection











# Eye and face protection

- Safety glasses with side shields.
- Chemical goggles.
- 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], [AS/NZS 1336 or national equivalent]

# Skin protection

See Hand protection below

- ► Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

### Hands/feet protection

#### NOTE:

- 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

 Version No: 1.3.6.8
 Page 8 of 15
 Issue Date: 07/21/2021

 Print Date: 07/21/2021
 Print Date: 07/21/2021

### **Hercules Shut Out**

Other protection

- Overalls.
- ► P.V.C apron.
- ▶ Barrier cream.
- Skin cleansing cream.
- ► Eye wash unit.

# **SECTION 9 Physical and chemical properties**

# Information on basic physical and chemical properties

Appearance	Grey paste		
Physical state	Free-flowing Paste	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	30000
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	>100	Taste	Not Available
Evaporation rate	Not Available	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)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	11

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
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

The material is not thought to produce adverse health effects or irritation of the respiratory tract. Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

 Version No: 1.3.6.8
 Page 9 of 15
 Issue Date: 07/21/2021

 Print Date: 07/21/2021
 Print Date: 07/21/2021

# **Hercules Shut Out**

Ingestion	The material has <b>NOT</b> been classified as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
Skin Contact	The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis.  The material may accentuate any pre-existing dermatitis condition  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.  Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	Although the material is not thought to be an irritant, direct contact with the eye may produce transient discomfort characterized by tearing or conjunctival redness (as with windburn).
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.  In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that 'carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.' (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	<b>✓</b>	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

**Legend:** X − Data either not available or does not fill the criteria for classification ✓ − Data available to make classification

# **SECTION 12 Ecological information**

city										
	Endpoint		Test Duration (hr)		Species	Value		Source		
Hercules Shut Out	Not Available		Not Available		Not Available	Not Availab	Not Available		Not Available	
calcium carbonate	Endpoint	Test Duration (hr)			Species	Value		Source		
	Not Available				Not Available	Not Available		Not Av	ailable	
paraffinic distillate, heavy, solvent-refined (severe)	Endpoint	Те	st Duration (hr)	Ouration (hr) Species			Value		Source	
	ErC50	72h		Algae or other aquatic plants		ants	>1000mg/l		1	
	NOEC(ECx)	504h		Crustacea			>1mg/l		1	
	EC50	48h		Crustacea			>1000mg/l		1	
	EC50	96h		Algae or other aquatic plants		>1000mg/l 1				
	Endpoint	nt Test Duration (hr)		Species Value		Value		Source	<b>)</b>	
Kaolin	Not Available		Not Available		Not Available	Not Availab	ole	Not Av	ailable	
	Endpoint	Test Duration (hr)		Species			Value		Source	
	EC10(ECx)	96h		Algae or other aquatic plants		nts	3.9mg/l		1	
fiel all	EC50	72h		Algae or other aquatic plants		nts	>100mg/l		1	
fish oil	LC50	96h		Fish			>10000mg/l		1	
	EC50	48h		Crustacea			>100mg/l		1	
	EC50	96h		Algae or other aquatic plants		13.3mg/l		1		

 Version No: 1.3.6.8
 Page 10 of 15
 Issue Date: 07/21/2021

 Print Date: 07/21/2021
 Print Date: 07/21/2021

# **Hercules Shut Out**

liaa amuutallima auvanta	Endpoint		Test Duration (hr)		Species	Value		Source	9
lica crystalline - quartz	Not Available		Not Available		Not Available	Not Availab	le	Not Available	
	Endpoint	Test Duration (hr)		Species			Value	)	Source
solvent naphtha	EC50(ECx)	48	h	Crustacea			>100mg/l		1
petroleum, medium aliphatic.	EC50	48	h	Cru	Crustacea			mg/l	1
anpriatio.	EC50	96	h	Alga	ae or other aquatic p	lants	450m	g/l	1
	Endpoint		Test Duration (hr)		Species	Value		Source	
Mica	Not Available		Not Available		Not Available	Not Availab	lo	Not Av	-
	NOT Available		Not Available		Not Available	NOT Availab	16	NOT AV	allable
	Endpoint	Test Duration (hr)		Species			Value		Source
Titanium dioxide	EC50	72h		Algae or other aquatic plants		nts	3.75-7.58mg/l		4
	BCF	1008h		Fish			<1.1-9.6		7
	EC50	48h		Crustacea			1.9mg/l		2
	LC50	96h		Fish			1.85-3.06mg/l		4
	NOEC(ECx)	504h		Crustacea			0.02mg/l		4
	EC50	96h		Algae or other aquatic plants		179.05mg/l 2		2	
	Endpoint	Tes	st Duration (hr)	Spec	ies		Value		Source
	EC50(ECx)	96h	า	Algae or other aquatic plants			<0.001mg/L		4
methanol	LC50	961	า	Fish			>100mg/l		4
	EC50	481	า	Crustacea			>10000mg/l		2
	EC50	961	า	Algae or other aquatic plants		nts	<0.001m	ng/L	4
	Endpoint	Test Duration (hr)		Species		Value		Source	
cristobalite	Not Available		Not Available	Not Available Not Available				Not Available	
Legend:	3. EPIWIN Suite	V3.12	D Toxicity Data 2. Eur (QSAR) - Aquatic Tox. rd Assessment Data 6	city Data (	Estimated) 4. US EP	A, Ecotox databa	se - Aquat	ic Toxicity	Data 5.

DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Titanium dioxide	HIGH	HIGH
methanol	LOW	LOW

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
Titanium dioxide	LOW (BCF = 10)
methanol	LOW (BCF = 10)

# Mobility in soil

Ingredient	Mobility
Titanium dioxide	LOW (KOC = 23.74)
methanol	HIGH (KOC = 1)

# **SECTION 13 Disposal considerations**

Version No: 1.3.6.8 Page 11 of 15 Issue Date: 07/21/2021 Print Date: 07/21/2021

#### **Hercules Shut Out**

#### Waste treatment methods

Product / Packaging

disposal

- 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.
- ▶ DO NOTallow 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 or consult manufacturer for recycling options.
- Consult State Land Waste Authority for disposal.
- ▶ Bury or incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorised landfill.

# **SECTION 14 Transport information**

#### **Labels Required**

**Marine Pollutant** 

NO

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

# Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
calcium carbonate	Not Available
paraffinic distillate, heavy, solvent-refined (severe)	Not Available
Kaolin	Not Available
fish oil	Not Available
silica crystalline - quartz	Not Available
solvent naphtha petroleum, medium aliphatic.	Not Available
Mica	Not Available
Titanium dioxide	Not Available
methanol	Not Available
cristobalite	Not Available

# Transport in bulk in accordance with the ICG Code

Product name	Ship Type
calcium carbonate	Not Available
paraffinic distillate, heavy, solvent-refined (severe)	Not Available
Kaolin	Not Available
fish oil	Not Available
silica crystalline - quartz	Not Available
solvent naphtha petroleum, medium aliphatic.	Not Available
Mica	Not Available
Titanium dioxide	Not Available
methanol	Not Available
cristobalite	Not Available

Version No: **1.3.6.8** Page **12** of **15** 

**Hercules Shut Out** 

Issue Date: **07/21/2021**Print Date: **07/21/2021** 

# **SECTION 15 Regulatory information**

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

#### calcium carbonate is found on the following regulatory lists

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
US TSCA Chemical Substance Inventory - Interim List of Active Substances

#### paraffinic distillate, heavy, solvent-refined (severe) 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

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US DOE Temporary Emergency Exposure Limits (TEELs)

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

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

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

Chemical Footprint Project - Chemicals of High Concern List

International WHO List of Proposed Occupational Exposure Limit (OEL)

Values for Manufactured Nanomaterials (MNMS)

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

#### fish oil is found on the following regulatory lists

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

#### silica crystalline - quartz 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 1: Carcinogenic to humans

US - California Proposition 65 - Carcinogens

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

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US DOE Temporary Emergency Exposure Limits (TEELs)

US National Toxicology Program (NTP) 14th Report Part A Known to be Human Carcinogens

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Carcinogens Listing

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

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

### solvent naphtha petroleum, medium aliphatic. 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 1: Carcinogenic to humans

US - California Proposition 65 - Carcinogens

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

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US DOE Temporary Emergency Exposure Limits (TEELs)

US National Toxicology Program (NTP) 14th Report Part A Known to be Human Carcinogens

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

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

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

US ACGIH Threshold Limit Values (TLV)

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

### Titanium dioxide is found on the following regulatory lists

 Version No: 1.3.6.8
 Page 13 of 15
 Issue Date: 07/21/2021

 Print Date: 07/21/2021
 Print Date: 07/21/2021

#### **Hercules Shut Out**

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

International WHO List of Proposed Occupational Exposure Limit (OEL)

Values for Manufactured Nanomaterials (MNMS)

US - California Proposition 65 - Carcinogens

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

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US ACGIH Threshold Limit Values (TLV) - Notice of Intended Changes

US DOE Temporary Emergency Exposure Limits (TEELs)

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

US NIOSH Carcinogen List

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

### methanol is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

US - California Proposition 65 - Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity

US - California Proposition 65 - Reproductive Toxicity

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

US ACGIH Threshold Limit Values (TLV)

US Clean Air Act - Hazardous Air Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

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 Chemical Substance Inventory - Interim List of Active Substances

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

Chemical Footprint Project - Chemicals of High Concern List

US - California Proposition 65 - Carcinogens

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

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Carcinogens Listing

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

### **Federal Regulations**

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

#### Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	No
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	No
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	No
Specific target organ toxicity (single or repeated exposure)	No

 Version No: 1.3.6.8
 Page 14 of 15
 Issue Date: 07/21/2021

 Print Date: 07/21/2021
 Print Date: 07/21/2021

#### **Hercules Shut Out**

Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

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

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
methanol	5000	2270

#### **State Regulations**

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



WARNING: This product can expose you to chemicals including silica, crystalline, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

### **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 and are not exempt from listing(see specific ingredients in brackets)

#### **SECTION 16 Other information**

Revision Date	07/21/2021
Initial Date	07/19/2021

#### 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

 ${\sf PC-STEL} : {\sf Permissible \ Concentration-Short \ Term \ Exposure \ Limit}$ 

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit $_{\circ}$ 

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

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List NDSL: Non-Domestic Substances List

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

 Version No: 1.3.6.8
 Page 15 of 15
 Issue Date: 07/21/2021

 Print Date: 07/21/2021
 Print Date: 07/21/2021

# **Hercules Shut Out**

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