

# SAFETY DATA SHEET HIGH-PERFORMANCE ROLLER-HOUSED UNIT GREASE

# Section 1. Identification

GHS product identifier	: HIGH-PERFORMANCE ROLLER-HOUSED UNIT GREASE
Other means of identification	: Not available.
Product type	: Solid.
Product code	: GR255
MSDS #	: 2992
Relevant identified uses o	f the substance or mixture and uses advised against
Product use: For professional use only.	: Industrial applications: Lubricants; grease
Supplier's details	: The Timken Corporation 4500 Mt. Pleasant St. NW North Canton, OH 44720 U.S.A. 234.262.3000
Emergency telephone number	: INFOTRAC U.S. and Canada - 800.535.5053 Outside the U.S. and Canada - +1 352.323.3500

### Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).		
Classification of the substance or mixture	: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1		
GHS label elements			
Hazard pictograms			
Signal word	: Warning		
Hazard statements	: Causes serious eye irritation.		
	May cause an allergic skin reaction.		
Precautionary statements			
Prevention	: Wear protective gloves. Wear eye or face protection. Avoid breathing dust. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.		

# Section 2. Hazards identification

Response	: IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Not applicable.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazards not otherwise classified	: None known.

### Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

#### CAS number/other identifiers

Ingredient name	%	CAS number
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	60-100	68037-01-4
azelaic acid Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts calcium bis(dinonylnaphthalenesulphonate)	1-5 1-5 0.1-1	123-99-9 68649-42-3 57855-77-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

<u>Description of necessary first aid measures</u>			
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</li> </ul>		
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.		
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.		

# Section 4. First aid measures

Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/e	effects, acute and delayed
Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	<ul> <li>No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.</li> </ul>
See toxicological information	on (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

## Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

Personal precautions, protec	tive	equipment and emergency procedures	
For non-emergency personnel	E e V	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Vear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
For emergency responders	ir	f specialised clothing is required to deal with the spillage, take note of any information n Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".	
Environmental precautions	а	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
Methods and materials for containment and cleaning up			
Small spill	fi	Nove containers from spill area. Avoid dust generation. Using a vacuum with HEPA ilter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.	
Large spill	s d la	Nove containers from spill area. Approach release from upwind. Prevent entry into newers, water courses, basements or confined areas. Avoid dust generation. Do not lry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed abeled waste container. Dispose of via a licensed waste disposal contractor. Note: nee Section 1 for emergency contact information and Section 13 for waste disposal.	

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

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Control parameters				
Occupational exposure lim	<u>nits</u>			
None.				
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.		
Environmental exposure controls		: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		
Individual protection measu	<u>ires</u>			
Hygiene measures		Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.		
Eye/face protection		Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.		
Skin protection				
Hand protection		Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.		
Body protection		Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Other skin protection		Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection		Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.		

# Section 9. Physical and chemical properties

:	Solid. [grease]
:	Gray.
:	Not available.
:	Not available.
:	Not applicable.
:	Not available.

Validated on 6/11/2015.

# Section 9. Physical and chemical properties

Flammability (solid, gas)	: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 0.9 g/cm <sup>3</sup>
Solubility	: Insoluble in the following materials: cold water and hot water.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
azelaic acid calcium bis (dinonylnaphthalenesulphonate)	LD50 Oral LD50 Dermal	Rat Rabbit	>5 g/kg >20 g/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

**Conclusion/Summary** : No known significant effects or critical hazards.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
azelaic acid	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit		3 milligrams 24 hours 500	-
calcium bis (dinonylnaphthalenesulphonate)	Skin - Moderate irritant	Rabbit		milligrams 0.5 Mililiters	-

Conclusion/Summary	
Skin	: Slightly irritating to the skin.
Eyes	: Slightly irritating to the eyes.
Respiratory	: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation. Pre-existing respiratory disorders may be aggravated by over-exposure to this product.
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Sensitization

Conclusion/Summary

# Section 11. Toxicological information

Skin	<ul> <li>No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.</li> </ul>
Respiratory	: Sensitization not suspected for humans.
Mutagenicity	
Conclusion/Summary	<ul> <li>There are no data available on the mixture itself. Mutagenicity not suspected for humans.</li> </ul>
<b>Carcinogenicity</b>	
Conclusion/Summary	<ul> <li>There are no data available on the mixture itself. Carcinogenicity not suspected for humans.</li> </ul>
Reproductive toxicity	
Conclusion/Summary	<ul> <li>There are no data available on the mixture itself. Not considered to be dangerous to humans, according to our database.</li> </ul>
<b>Teratogenicity</b>	
Conclusion/Summary	<ul> <li>There are no data available on the mixture itself. Teratogenicity not suspected for humans.</li> </ul>
Specific target organ toxi	<u>city (single exposure)</u>

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Name	Result
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects		
Eye contact	:	Causes serious eye irritation.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the physical sector of the sector sect		cal, chemical and toxicological characteristics Adverse symptoms may include the following: pain or irritation watering
		redness
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate effect	<u>ts</u>	and also chronic effects from short and long term exposure

: Not available.

effects

Short term exposure Potential immediate

## Section 11. Toxicological information

Potential delayed effects: Not available.Long term exposurePotential immediate: Not available.effects: Not available.Potential delayed effects: Not available.Potential chronic health effects: Not available.Conclusion/Summary: No known significant effects or critical hazards.General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.		•
Potential immediate effects: Not available.Potential delayed effects: Not available.Potential chronic health effectsConclusion/Summary General: No known significant effects or critical hazards.Carcinogenicity Mutagenicity: No known significant effects or critical hazards.Mutagenicity Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.	Potential delayed effects	: Not available.
effectsPotential delayed effects: Not available.Potential chronic health effectsConclusion/Summary: No known significant effects or critical hazards.General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.	Long term exposure	
Potential chronic health effectsConclusion/Summary: No known significant effects or critical hazards.General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.		: Not available.
Conclusion/Summary: No known significant effects or critical hazards.General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.	Potential delayed effects	: Not available.
General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.	Potential chronic health eff	<u>ects</u>
Very low levels.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.	<b>Conclusion/Summary</b>	: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.	General	
Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.	Carcinogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b> : No known significant effects or critical hazards.	Mutagenicity	: No known significant effects or critical hazards.
	Teratogenicity	: No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.	<b>Developmental effects</b>	: No known significant effects or critical hazards.
	Fertility effects	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

Acute toxicity estimates Not available.

### Section 12. Ecological information

#### **Toxicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Persistence and degradability

**Conclusion/Summary** 

: This product has not been tested for biodegradation. Not expected to be rapidly degradable. This product is not expected to bioaccumulate through food chains in the environment.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	>6.5	-	high
azelaic acid	1.57	238 to 288	low

#### Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Other adverse effects	: No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

# Section 13. Disposal considerations

and sewers.

# Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

## Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) PAIR: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	United States inventory (TSCA 8b): All components are listed or exempted.
	<b>Clean Water Act (CWA) 307</b> : zinc bis(dipentyldithiocarbamate); Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts
	Clean Water Act (CWA) 311: adipic acid
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	
Composition/information	on ingredients

## Section 15. Regulatory information

No products were found.

#### SARA 304 RQ : Not applicable.

SARA 311/312

#### Classification

: Immediate (acute) health hazard

#### **Composition/information on ingredients**

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
azelaic acid Phosphorodithioic acid, O,O-di- C1-14-alkyl esters, zinc salts calcium bis (dinonylnaphthalenesulphonate)	1-5 1-5 0.1-1	No. No. No.	No. No. No.	No. No. No.	Yes. Yes. Yes.	No. No. No.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	1-5
Supplier notification	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	1-5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### **State regulations**

Connecticut Carcinogen Reporting	: None of the components are listed.
Connecticut Hazardous Material Survey	: None of the components are listed.
Florida substances	: None of the components are listed.
Illinois Chemical Safety Act	None of the components are listed.
Illinois Toxic Substances Disclosure to Employee Act	: None of the components are listed.
Louisiana Reporting	: None of the components are listed.
Louisiana Spill	: None of the components are listed.
Massachusetts Spill	: None of the components are listed.
Massachusetts Substances	: The following components are listed: MOLYBDENUM DISULFIDE
Michigan Critical Material	: None of the components are listed.
Minnesota Hazardous Substances	: None of the components are listed.
New Jersey Spill	: None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act	: None of the components are listed.
New Jersey Hazardous Substances	: The following components are listed: ZINC compounds
New York Acutely Hazardous Substances	: None of the components are listed.
New York Toxic Chemical Release Reporting	: None of the components are listed.
Pennsylvania RTK Hazardous Substances	: The following components are listed: ZINC COMPOUNDS
Rhode Island Hazardous Substances	: None of the components are listed.
California Prop. 65 None of the components are listed.	

#### International regulations

Validated on 6/11/2015.

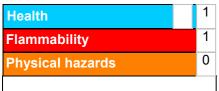
## Section 15. Regulatory information

-	ention List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol (Anne	<u>xes A, B, C, E)</u>
Not listed.	
International lists	
National inventory	
Australia	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: All components are listed or exempted.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
<u>Canada</u>	
WHMIS (Canada)	: Not controlled under WHMIS (Canada).
Canadian lists	
Canadian NPRI	: The following components are listed: Zinc (and its compounds)
CEPA Toxic substances	: None of the components are listed.
Canada inventory; DSL/ NDSL	: All components are listed or exempted.
This product has been als	ssified in accordance with the bazard criteria of the Controlled Broduc

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



## Section 16. Other information

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

<u>History</u>	
Date of issue/Date of revision	: 6/11/2015
Date of previous issue	: 5/12/2015
Version	: 1.01
	Regulatory Department, Chemtool Inc.
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.