

Material Safety Data Sheet

VOLVO 5TH WHEEL GREASE & SLIDER LUBE

1. Product and company identification

Material uses : Industrial applications: Lubricants; grease.

Manufacturer : Chemtool Incorporated

801 West Rockton Road Rockton, IL 61072 U.S.A. Tel: +01 815.957.4140 Fax: +01 815.624.0292

Product code : RMC2904002

MSDS # : 2075

Validation date : 9/25/2013.

In case of emergency : INFOTRAC

U.S. and Canada - 800.535.5053

Outside the U.S. and Canada - +01 352.323.3500

2. Hazards identification

Emergency overview

Physical state : Solid. [grease]

Color : Black.

Odor : Mild. Petroleum oil

Signal word : WARNING!

Hazard statements : MAY CAUSE EYE AND SKIN IRRITATION.

Precautionary measures : Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and

clothing. Wash thoroughly after handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Routes of entry : Dermal contact. Eye contact.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.Ingestion : No known significant effects or critical hazards.

Validated on 9/25/2013. 1/15

2. Hazards identification

Skin : May cause skin irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE

HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE

FOLLOWED.

Eyes : May cause mild eye irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT

ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR

USE ARE FOLLOWED.

Potential chronic health effects

Chronic effects : Contains material that may cause target organ damage, based on animal data.

Carcinogenicity : Contains crystalline silica; Suspected of causing cancer if inhaled. Risk of cancer

depends on duration and level of exposure. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED

INSTRUCTIONS FOR USE ARE FOLLOWED.

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.

Target organs : Contains material which may cause damage to the following organs: lungs,

cardiovascular system, upper respiratory tract, skin, eyes.

Over-exposure signs/symptoms

Inhalation : No specific data.

Ingestion : No specific data.

Skin : Adverse symptoms may include the following:

irritation redness

Eyes: Adverse symptoms may include the following:

pain or irritation watering redness

Medical conditions aggravated by over-

exposure

: Pre-existing disorders involving any target organs mentioned in this MSDS as being at

risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	30-50
Natural graphite	7782-42-5	20-40
Residual oils (petroleum), solvent deasphalted	64741-95-3	5-10
molybdenum disulphide	1317-33-5	1-5

Canada

Validated on 9/25/2013. 2/15

3. Composition/information on ingredients

Name	CAS number	%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	30-50
Natural graphite	7782-42-5	20-40
Residual oils (petroleum), solvent deasphalted	64741-95-3	5-10
molybdenum disulphide	1317-33-5	1-5

Mexico

Classification

Name	CAS number	UN number	%	IDLH	н	F	R	Special
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Not available.	30-50	2500 mg/m ³	1	1	0	-
Natural graphite	7782-42-5	Not available.	20-40	1250 mg/m³	1	0	0	-
Residual oils (petroleum), solvent deasphalted	64741-95-3	Not available.	5-10	2500 mg/m³	1	1	0	-
molybdenum disulphide	1317-33-5	Not available.	1-5	5000 mg/m ³	1	0	0	-

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.

4. First aid measures

Eye contact	

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Protection of first-aiders

: 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.

Notes to physician

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Validated on 9/25/2013. 3/15

5. Fire-fighting measures

Flammability of the product

: No specific fire or explosion hazard.

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Special exposure hazards

 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.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides metal oxide/oxides

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.

6. Accidental release measures

Personal precautions

: 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. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

: 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 for cleaning up

Small spill

: Move containers from spill area. Avoid dust generation. Do not dry sweep. Place spilled material in a designated, labeled waste container. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). 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. Do not ingest. Avoid contact with eyes, skin and clothing. 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.

Validated on 9/25/2013. 4/15

7. Handling and storage

Storage

: 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.

8. Exposure controls/personal protection

United States

Ingredient	Exposure limits
Distillates (petroleum), hydrotreated heavy	ACGIH TLV (United States, 3/2012).
naphthenic	TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
	NIOSH REL (United States, 1/2013).
	TWA: 5 mg/m³ 10 hours. Form: Mist
	STEL: 10 mg/m³ 15 minutes. Form: Mist
	OSHA PEL (United States, 6/2010).
	TWA: 5 mg/m³ 8 hours.
Natural graphite	OSHA PEL 1989 (United States, 3/1989).
	TWA: 2.5 mg/m³ 8 hours. Form: Respirable dust
	ACGIH TLV (United States, 3/2012).
	TWA: 2 mg/m³ 8 hours. Form: Respirable fraction
	NIOSH REL (United States, 1/2013).
	TWA: 2.5 mg/m³ 10 hours. Form: Respirable fraction
	OSHA PEL Z3 (United States, 9/2005).
	TWA: 15 mppcf 8 hours.
Residual oils (petroleum), solvent deasphalted	ACGIH TLV (United States, 3/2012).
	TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction
	NIOSH REL (United States, 1/2013).
	TWA: 5 mg/m³ 10 hours. Form: Mist
	STEL: 10 mg/m³ 15 minutes. Form: Mist
	OSHA PEL (United States, 6/2010).
	TWA: 5 mg/m³ 8 hours.
molybdenum disulphide	ACGIH TLV (United States, 3/2012).
	TWA: 10 mg/m³, (as Mo) 8 hours. Form: Inhalable fraction
	TWA: 3 mg/m³, (as Mo) 8 hours. Form: Respirable fraction
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 10 mg/m³, (as Mo) 8 hours. Form: Total dust
	OSHA PEL (United States, 6/2010).
	TWA: 15 mg/m³, (as Mo) 8 hours. Form: Total dust

Canada

Occupational exposure limits		TWA	TWA (8 hours)		STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/ m³	Other	ppm	mg/ m³	Other	ppm	mg/ m³	Other	Notations

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8. Exposure controls/personal protection

•											
Natural graphite	US ACGIH 3/2012	-	2	-	-	-	-	-	-	-	[a]
	AB 4/2009	-	2	-	-	-	-	-	-	-	[b]
	BC 4/2012	-	2	-	-	-	-	-	-	-	[c]
	ON 1/2013	-	2	-	-	-	-	-	-	-	[a]
	QC 12/2012	-	2	-	-	-	-	-	-	-	[d]
molybdenum disulphide, as Mo	US ACGIH 3/2012	-	10	-	-	-	-	-	-	-	[e]
	US ACGIH 3/2012	-	3	-	-	-	-	-	-	-	[a]
	AB 4/2009	-	3	-	-	-	-	-	-	-	[c]
		-	10	-	-	-	-	-	-	-	
molybdenum disulphide	BC 4/2012	-	10	-	-	-	-	-	-	-	[f]
	BC 4/2012	-	3	-	-	-	-	-	-	-	[c]
molybdenum disulphide, as Mo	ON 1/2013	-	10	-	-	-	-	-	-	-	[e]
	ON 1/2013	-	3	-	-	-	-	-	-	-	[a]
	QC 12/2012	-	10	-	-	-	-	-	-	-	
Distillates (petroleum), hydrotreated	US ACGIH 3/2012	-	5	-	-	-	-	-	-	-	[e]
heavy naphthenic											
	AB 4/2009	-	5	-	-	10	-	-	-	-	[g]
	ON 1/2013	-	5	-	-	10	-	-	-	-	[h]
	QC 12/2012	-	5	-	-	10	-	-	-	-	[h]
Residual oils (petroleum), solvent	US ACGIH 3/2012	-	5	-	-	-	-	-	-	-	[e]
deasphalted			1_								
	AB 4/2009	-	5	-	-	10	-	-	-	-	[g]
	ON 1/2013	-	5	-	-	10	-	-	-	-	[h]
	QC 12/2012	-	5	-	-	10	-	-	-	-	[h]

Form: [a]Respirable fraction [b]Respirable (all forms except graphite fibres) [c]Respirable [d]Respirable dust. [e]Inhalable fraction [f]Inhalable [g]Mist [h]mist

Mexico

Occupational exposure limits

Ingredient	Exposure limits
Distillates (petroleum), hydrotreated heavy naphthenic	NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 5 mg/m³ 8 hours. Form: mist LMPE-CT: 10 mg/m³ 15 minutes. Form: mist
Natural graphite	NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 2 mg/m³ 8 hours.
Residual oils (petroleum), solvent deasphalted	NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 5 mg/m³ 8 hours. Form: mist
molybdenum disulphide	LMPE-CT: 10 mg/m³ 15 minutes. Form: mist NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 10 mg/m³, (as Mo) 8 hours. LMPE-CT: 20 mg/m³, (as Mo) 15 minutes.

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Validated on 9/25/2013. 6/15

8. Exposure controls/personal protection

Personal protection

Respiratory

: 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.

Hands

: 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.

Eyes

: 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 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

: 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.

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.

9. Physical and chemical properties

Physical state: Solid. [grease]Flash point: Not available.Auto-ignition temperature: Not available.Flammable limits: Not available.

Color : Black.

Odor : Mild. Petroleum oil pH : Not applicable. **Boiling/condensation point** : Not available. Melting/freezing point : Not available. **Density** : 0.96 g/cm³ Vapor pressure Not available. : Not available. Vapor density : Not available. Volatility : Not available. **Evaporation rate** : Not available. **Viscosity Dispersibility properties** : Not available.

Solubility : Insoluble in the following materials: cold water.

Validated on 9/25/2013. 7/15

10. Stability and reactivity

Chemical stability : The product is stable.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur.

reactions

11. Toxicological information

United States

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary

: No known significant effects or critical hazards.

Chronic toxicity

Conclusion/Summary

: Contains material that may cause target organ damage, based on animal data.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Distillates (petroleum), hydrotreated heavy naphthenic	Skin - Severe irritant	Rabbit	-	500 milligrams	-

Conclusion/Summary

Skin

: May cause skin irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Eyes

: May cause mild eye irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Respiratory

: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.

<u>Sensitizer</u>

Conclusion/Summary

Skin

: No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.

Respiratory

: Sensitization not suspected for humans.

Carcinogenicity

Conclusion/Summary

: Contains crystalline silica; Suspected of causing cancer if inhaled. Risk of cancer depends on duration and level of exposure. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Mutagenicity

Conclusion/Summary

: There are no data available on the mixture itself. Mutagenicity not suspected for humans.

Validated on 9/25/2013. 8/15

11. Toxicological information

Teratogenicity

Conclusion/Summary

: There are no data available on the mixture itself. Teratogenicity not suspected for humans.

Reproductive toxicity

Conclusion/Summary

: There are no data available on the mixture itself. Not considered to be dangerous to humans, according to our database.

Canada

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary

: No known significant effects or critical hazards.

Chronic toxicity

Conclusion/Summary

: Contains material that may cause target organ damage, based on animal data.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Distillates (petroleum), hydrotreated heavy naphthenic	Skin - Severe irritant	Rabbit	-	500 milligrams	-

Conclusion/Summary

Skin

: May cause skin irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Eyes

: May cause mild eye irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Respiratory

: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.

<u>Sensitizer</u>

Conclusion/Summary

Skin

: No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.

Respiratory

: Sensitization not suspected for humans.

Carcinogenicity

Conclusion/Summary

: Contains crystalline silica; Suspected of causing cancer if inhaled. Risk of cancer depends on duration and level of exposure. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED

INSTRUCTIONS FOR USE ARE FOLLOWED.

Mutagenicity

Conclusion/Summary

: There are no data available on the mixture itself. Mutagenicity not suspected for humans.

Teratogenicity

Conclusion/Summary

: There are no data available on the mixture itself. Teratogenicity not suspected for humans.

Validated on 9/25/2013. 9/15

11. Toxicological information

Reproductive toxicity

Conclusion/Summary

: There are no data available on the mixture itself. Not considered to be dangerous to humans, according to our database.

Mexico

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary

: No known significant effects or critical hazards.

Chronic toxicity

Conclusion/Summary

: Contains material that may cause target organ damage, based on animal data.

Irritation/Corrosion

Product/ingredient name	Result	Score	Score	Exposure	Observation
Distillates (petroleum), hydrotreated heavy naphthenic	Skin - Severe irritant	Rabbit	1	500 milligrams	-

Conclusion/Summary

Skin

: May cause skin irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Eyes

: May cause mild eye irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Respiratory

: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.

<u>Sensitizer</u>

Conclusion/Summary

Skin

 No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.

Respiratory

: Sensitization not suspected for humans.

Carcinogenicity

Conclusion/Summary

: Contains crystalline silica; Suspected of causing cancer if inhaled. Risk of cancer depends on duration and level of exposure. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Mutagenicity

Conclusion/Summary

: There are no data available on the mixture itself. Mutagenicity not suspected for humans.

Teratogenicity

Conclusion/Summary

: There are no data available on the mixture itself. Teratogenicity not suspected for humans.

Reproductive toxicity

Conclusion/Summary

: There are no data available on the mixture itself. Not considered to be dangerous to humans, according to our database.

Validated on 9/25/2013. 10/15

12. Ecological information

Ecotoxicity

: Not readily biodegradable.

United States

Aquatic ecotoxicity

Conclusion/Summary

Persistence/degradability

Conclusion/Summary

: There are no data available on the mixture itself.

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

Canada

Aquatic ecotoxicity

Conclusion/Summary

Persistence/degradability

Conclusion/Summary

: There are no data available on the mixture itself.

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

Mexico

Aquatic ecotoxicity

Conclusion/Summary

Persistence/degradability

Conclusion/Summary

: There are no data available on the mixture itself.

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

13. Disposal considerations

Waste disposal

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 and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-

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					MSDS #: 2075	
14. Transpo	14. Transport information					
Mexico Classification	Not regulated.	-	-	-	-	
ADR/RID Class	Not regulated.	-	-	-	-	
IMDG Class	Not regulated.	-	-	-	-	
IATA-DGR Class	Not regulated.	-	-	-	-	

PG*: Packing group

15. Regulatory information

United States

HCS Classification : Irritating material

Target organ effects

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304: No products were found.

SARA 311/312 Hazards identification: Immediate (acute) health hazard, Delayed

(chronic) health hazard

Clean Air Act Section 112 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed

Class I Substances

Clean Air Act Section 602 : Not listed

Class II Substances

DEA List I Chemicals

(Precursor Chemicals)

DEA List II Chemicals

(Essential Chemicals)

: Not listed

: Not listed

SARA 313

Product name		CAS number	Concentration	
Form R - Reporting requirements	: No listed substance			
Supplier notification	: No listed substance			

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

State regulations

Connecticut Carcinogen Reporting
Connecticut Hazardous Material Survey

Florida substances

Illinois Chemical Safety Act

: None of the components are listed.

None of the components are listed.None of the components are listed.

: None of the components are listed.

Validated on 9/25/2013. 12/15

15. Regulatory information

Illinois Toxic Substances Disclosure to Employee

Act

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:

 The following components are listed: GRAPHITE (NATURAL)DUST; MOLYBDENUM DISULFIDE

: None of the components are listed.

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: GRAPHITE

(NATURAL); GRAPHITE; SILICA, QUARTZ; QUARTZ

(SiO2)

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: GRAPHITE

Rhode Island Hazardous Substances : None of the components are listed.

California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	•	3 3	Maximum acceptable dosage level
crystalline silica respirable	Yes.	No.	No.	No.

United States inventory : All components are listed or exempted.

(TSCA 8b)

Canada

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

Canada inventory; DSL/ : All components are listed or exempted.

NDSL

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.

Mexico

Classification :



International regulations

Validated on 9/25/2013. 13/15

15. Regulatory information

International lists

: Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined.

Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

Europe inventory: All components are listed or exempted.

Chemical Weapons

Convention List Schedule

: Not listed

I Chemicals

Chemical Weapons Convention List Schedule

II Chemicals

: Not listed

Chemical Weapons

Convention List Schedule

III Chemicals

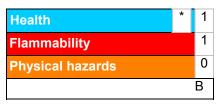
: Not listed

16. Other information

Label requirements

: MAY CAUSE EYE AND SKIN IRRITATION.

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 MSDSs 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.)



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16. Other information

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.

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Prepared by : Regulatory Department, Chemtool Inc.

✓ Indicates information that has changed from previously issued version.

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.

Validated on 9/25/2013. 15/15