Safety Data Sheet



Section1:Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name | Tube-O-Lube

Product Code

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.3 Details of the supplier of the safety data sheet

Manufacturer | Superior Graphite

10 S. Riverside Plaza Chicago, IL 60606 United States

Telephone (General) 1 312-559-2999 - (8am-5pm CST, M-F)

1.4 Emergency telephone number

Manufacturer 1-800-424-9300 - For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak,

Fire, Exposure, or Accident Call CHEMTREC Day or Night

Manufacturer 1+1703-527-3887 - Outside USA and Canada (collect calls accepted)

Section2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP Not classified
DSD/DPD Not classified

2.2 Label Elements

CLP

Hazard statements | No label element(s) required

DSD/DPD

Risk phrases | No label element(s) required

2.3 Other Hazards

CLP | May form combustible dust concentrations in air.

According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered

hazardous.

DSD/DPD | May form combustible dust concentrations in air.

According to European Directive 1999/45/EC this material is considered dangerous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012 | Combustible Dust

2.2 Label elements

OSHA HCS 2012

WARNING

Hazard statements | May form combustible dust concentrations in air.

2.3 Other hazards

OSHA HCS 2012

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS | Not classified

2.2 Label elements

WHMIS | No label element(s) required.

2.3 Other hazards

WHMISI May form combustible dust concentrations in air.

In Canada, the product mentioned above is not considered hazardous under the

Workplace Hazardous Materials Information System (WHMIS).

Section3-Composition/InformationonIngredients

3.1 Substances

Material does not meet the criteria of a substance.

3.2 Mixtures

Composition							
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments		
Graphite	CAS:7782-42-5 EC Number:231-955-3	99%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Comb. Dust	NDA		
Quartz	CAS:14808-60-7 EC Number:238-878-4	< 0.1%	NDA	EU CLP: Community workplace exposure limit OSHA HCS 2012: Exposure limits	NDA		

Section4-FirstAidMeasures

Eve

4.1 Description of first aid measures

Inhalation | Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer

oxygen if breathing is difficult. If breathing is difficult get medical attention.

SkinIF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.

In case of contact with substance, immediately flush eyes with running water for at

least 20 minutes. Get medical attention.

Ingestion I Do NOT induce vomiting. Rinse mouth. Do not give anything by mouth to an

unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

I All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials

other than this product may have occurred.

4.4 Other information

Call 911 or emergency medical service. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Section5-FirefightingMeasures

5.1 Extinguishing media

Suitable Extinguishing Media | LARGE FIRE: Water spray, fog or regular foam.

SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing

Media

No data available.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion

Hazards

Dust dispersed in air in sufficient concentrations and in the presence if an ignition source is an explosion hazard.

Hazardous Combustion

Products

Graphite will burn, giving off carbon dioxide and potentially carbon monoxide.

5.3 Advice for firefighters

1 Wear positive pressure self-contained breathing apparatus (SCBA).

Structural firefighters' protective clothing will only provide limited protection. LARGE FIRES: Move containers from fire area if you can do it without risk. LARGE FIRES: Do not scatter spilled material with high pressure water streams.

LARGE FIRES: Dike fire-control water for later disposal.

Section6-AccidentalReleaseMeasures

6.1 Personal precautions, protective equipment and emergency procedures

Personal PrecautionsAvoid contact with material that generates respirable dust unless proper PPE is used.

Do not walk through spilled material.

Emergency Procedures Use normal clean up procedures. Ventilate closed spaces before entering.

6.2 Environmental precautions

Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust.

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WHMIS, EU CLP, EU DSD/DPD, OSHA HCS 2012

6.4 Reference to other sections

Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section7-HandlingandStorage

7.1 Precautions for safe handling

Handling

Use only with adequate ventilation. Use appropriate Personal Protective Equipment (PPE) Do not breathe dust. Avoid accumulation of dust. Good housekeeping practices should be in place to prevent accumulation of dusts on surfaces. If dusts are generated during processing eliminate ignition sources. Take precautionary measures against static charges. Graphite is conductive and can cause short circuits and other electrical malfunctions. Graphite causes slippery conditions. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage | Ve

I Ventilate enclosed areas. Keep container closed.

7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

Section8-ExposureControls/PersonalProtection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	NIOSH	OSHA		
Quartz (14808-60-7)	IIIVVAS	0.025 mg/m3 TWA (respirable fraction)	0.05 mg/m3 TWA (respirable dust)	Not established		
Graphite (7782-42-5)	TWAs	2 mg/m3 TWA (all forms except graphite fibers, respirable fraction)	2.5 mg/m3 TWA (natural, respirable dust)	15 mg/m3 TWA (synthetic, total dust); 5 mg/m3 TWA (synthetic,		

Exposure Limits Supplemental OSHA

•Graphite (7782-42-5): Mineral Dusts: (15 mppcf TWA (natural))

•Quartz (14808-60-7): Mineral Dusts: ((30)/(%SiO2 + 2) mg/m3 TWA, total dust; (250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (10)/(%SiO2

+ 2) mg/m3 TWA, respirable fraction)

8.2 Exposure controls

Engineering Measures/Controls

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. All dust control equipment should contain explosion relief vents or an explosion supression system or an oxygendeficient environment. Make sure that dust handling systems are designed to prevent escape of dust into the work area and that they do not leak.

Personal Protective Equipment

Respiratory

■ For limited exposure use an N95 dust mask. For prolonged exposure use an airpurifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

■ Wear protective eyewear (goggles, face shield, or safety glasses). Eye wash station should be available.

Hands

Wear protective gloves.

Skin/Body

1 Wear long sleeves and/or protective coveralls.

EnvironmentalExposure

Followbestpracticeforsitemanagementanddisposalofwaste.Controlsshouldbe

Format: EU CLP/REACH Language: English (US) WHMIS, EU CLP, EU DSD/DPD, OSHA HCS 2012

Controls

engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section9-PhysicalandChemicalProperties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Gray solid with no odor.
Color	Gray	Odor	None
Odor Threshold	Data lacking		
General Properties	•	•	·
Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	рН	Not relevant
Specific Gravity/Relative Density	= 2.25	Water Solubility	Insoluble
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility	•	•	·
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability		•	·
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental	•		
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

1 No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

1 No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

1 Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

■ Will not occur.

10.4 Conditions to avoid

1 Accumulation of dusts - mixtures of graphite dust and air are explosive when ignited.

10.5 Incompatible materials

1 Strong oxidizing agents, acids, and alkalis.

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10.6 Hazardous decomposition products

1 On burning may release carbon dioxide and carbon monoxide.

Section11-ToxicologicalInformation

11.1 Information on toxicological effects

	Components							
Quartz 14808- (< 0.1%) 60-7	Multi-dose Toxicity: Inhalation-Hamster TCLo • 3 mg/m³ 6 Hour(s) 78 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Changes in lung weight; Inhalation-Rat TCLo • 80 mg/m³ 26 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Blood:Changes in spleen; Immunological Including Allergic:Decrease in cellular immune response; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 50 mg/m³ 6 Hour(s) 71 Week(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Liver:Tumors							

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Aspiration Hazard	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Carcinogenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Skin sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-RE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

Route(s) of entry/exposure | Inhalation, Skin, Eye, Ingestion

Medical Conditions Aggravated by Exposure **Potential Health Effects** ■ Disorders of the lungs.

Inhalation

Acute (Immediate)

| Exposure to dust may cause irritation.

Chronic (Delayed)

■ No data available

Skin

Format: EU CLP/REACH Language: English (US) WHMIS, EU CLP, EU DSD/DPD, OSHA HCS 2012

Acute (Immediate)

| Exposure to dust may cause mechanical irritation.

Chronic (Delayed)

■ No data available.

Eye

Acute (Immediate) | Exposure to dust may cause mechanical irritation. Excessive concentrations of

nuisance dust in the workplace may reduce visibility and may cause unpleasant

deposits in eyes.

Chronic (Delayed)

■ No data available.

Ingestion

Acute (Immediate)

 ${}_{I} Excessive concentrations of nuisance dust in the work place may cause mechanical$

irritation to mucous membranes.

Chronic (Delayed)

■ No data available.

Carcinogenic Effects

This material contains Quartz which is considered a carcinogen, however this material as a whole is not classified as a carcinogen.

Carcinogenic Effects					
	CAS	IARC	NTP		
Quartz	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen		

Key to abbreviations

TC = Toxic Concentration

Section12-EcologicalInformation

12.1 Toxicity

Datalacking.

12.2 Persistence and degradability

Datalacking.

12.3 Bioaccumulative potential

Data lacking.

12.4 Mobility in Soil

Data lacking.

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment has not been conducted for this material.

12.6 Other adverse effects

No studies have been found.

Section 13-Disposal Considerations

13.1 Waste treatment methods

Product waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

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Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section14-TransportInformation

Format: EU CLP/REACH Language: English (US) WHMIS, EU CLP, EU DSD/DPD, OSHA HCS 2012

	14.1 UN 14.2 UN proper shipping name				14.5 Environmental hazards
DOT	NDA	Not regulated	NDA	NDA	NDA
TDG	NDA	Not regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not regulated	NDA	NDA	NDA

14.6 Special precautions for user

I None specified.

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

■ Data lacking.

Section15-RegulatoryInformation

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

SARA Hazard Classifications Pressure (Sudden Release of)

D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific

Issues - Silica crystalline Inventory encapsulated on Health Canada's WEUMES NICESION Component CAS Canada DSL Canada NDSL **EU EINECS** website.) Graphite 7782-42-5 Yes Yes Quartz 14808-60-7 Yes No Yes No

Canada

Canada - WHMIS - Classifications of Substances		
Quartz	14808-60-7	
Graphite	7782-42-5	D2A (natural); D2B (synthetic
Canada - WHMIS - Ingredient Disclosure List		
• Quartz	14808-60-7	1 %
Graphite	7782-42-5	Not Listed
nvironment Canada - CEPA - Priority Substances List		
• Quartz	14808-60-7	Not Listed
Graphite	7782-42-5	Not Listed

Europe

Other

EU - Hazardous Substances Restricted or Prohibited in Electrical Equipment (2011/65/EU) (RoHS)

QuartzGraphite14808-60-7 Not ListedNot Listed

Japan

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Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)

QuartzGraphite14808-60-7 Not ListedNot Listed

Other

Japan - Chemical Substance Control Law (CSCL) - Monitoring Chemical Substances

Quartz
 Graphite
 14808-60-7 Not Listed
 7782-42-5 Not Listed

Japan - Poisonous and Deleterious Substances - Substances Not Considered Deleterious

QuartzGraphite14808-60-7 Not ListedNot Listed

Japan - Poisonous and Deleterious Substances - Substances Not Considered Poisonous

QuartzGraphite14808-60-7 Not ListedNot Listed

United States

Labo	T		

U.S OSHA - Process Safety Management - Highly Hazardous Chemicals		
• Quartz	14808-60-7	Not Listed
Graphite	7782-42-5	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

QuartzGraphite14808-60-7 Not ListedNot Listed

⁻Environment⁻

U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
• Quartz	14808-60-7	Not Listed

• Graphite 7782-42-5 Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Quartz	14808-60-7	Not Listed
Graphite	7782-42-5	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Quartz	14808-60-7	Not Listed
Graphite	7782-42-5	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

Quartz	14808-60-7	Not Listed
Graphite	7782-42-5	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Quartz	14808-60-7	Not Listed
Graphite	7782-42-5	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Graphite	7782-42-5	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing • Quartz	14808-60-7	Not Listed
Graphite	7782-42-5	Not Listed

United States - California

J.S California - Proposition 65 - Carcinogens List		
Quartz	14808-60-7	carcinogen, initial date 10/1/8 (airborne particles of respirable size)
Graphite	7782-42-5	Not Listed
J.S California - Proposition 65 - Developmental Toxicity		
Quartz	14808-60-7	Not Listed
Graphite	7782-42-5	Not Listed
J.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
Quartz	14808-60-7	Not Listed
Graphite	7782-42-5	Not Listed
J.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
Quartz	14808-60-7	Not Listed
Graphite	7782-42-5	Not Listed
J.S California - Proposition 65 - Reproductive Toxicity - Female		
Quartz	14808-60-7	Not Listed
Graphite	7782-42-5	Not Listed
J.S California - Proposition 65 - Reproductive Toxicity - Male		
Quartz	14808-60-7	Not Listed
Graphite	7782-42-5	Not Listed

15.2 Chemical Safety Assessment

1 No Chemical Safety Assessment has been carried out.

15.3 Other Information

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

Section16-OtherInformation

Last Revision Date
Preparation Date
Disclaimer/Statement of
Liability

∎11/May/2015

∎11/May/2015

The information contained herein is based on data available. However, no warranty is expressed or implied regarding the accuracy of the data or the results obtained from the use thereof. Because the information contained herein may be applied under conditions beyond our control, we assume no responsibility for its use.

Key to abbreviations NDA = No data available