



# 1. Identification

Product identifier	871 High Temperature Graphite Grease
Other means of identification	
SDS number	871.001
Product code	PLU871
Recommended use	Industrial use.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/	Distributor information
Company name	PLUSCO, Inc.
Address	14518 Henry Road
	Houston, TX 77060
Telephone	713-880-0316
Website	www.plus-co.com
Emergency phone number	1-800-275-1875
2. Hazard(s) identification	
Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	CAS number	%
Mineral Oil	Not available	60-70
Graphite	7782-42-5	10-15
Other components below reportable levels		11.92

### Other components below reportable levels

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

### 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.

871 High Temperature Graphite Grease

Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7 Handling and storage	

# 7. Handling and storage

Precautions for safe handling	Avoid prolonged exposure. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

# **Occupational exposure limits**

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

Components	Туре	Value	Form
Graphite (CAS 7782-42-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Mineral oil mist (CAS Not available)	PEL	5 mg/m3	Mist.
US. OSHA Table Z-3 (29 CFR 1910	0.1000)		
Components	Туре	Value	
Graphite (CAS 7782-42-5)	TWA	15 mppcf	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	Form
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
Mineral oil mist (CAS Not available)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to Cher	mical Hazards		
Components	Туре	Value	Form
Graphite (CAS 7782-42-5)	TWA	2.5 mg/m3	Respirable.

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

Components	Туре	Value	Form
Mineral oil mist (CAS Not available)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Biological limit values	No biological exposure limits noted for the	ingredient(s).	
Appropriate engineering controls	Good general ventilation (typically 10 air ch should be matched to conditions. If applica or other engineering controls to maintain ai exposure limits have not been established,	ble, use process enclosu rborne levels below reco	res, local exhaust ventilation, mmended exposure limits. If
Individual protection measures	s, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or g	oggles).	
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves supplier.	s. Suitable gloves can be	recommended by the glove
Skin protection			
Other	Wear suitable protective clothing.		
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suita	able respiratory equipme	nt.
Thermal hazards	Wear appropriate thermal protective clothir	ng, when necessary.	
General hygiene considerations	Always observe good personal hygiene me and before eating, drinking, and/or smoking equipment to remove contaminants.		

# 9. Physical and chemical properties

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Appearance	Semi-solid, viscous
Physical state	Solid.
Form	Solid. Semi-solid.
Color	Black.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	455.0 °F (235.0 °C) Cleveland Open Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	0.87 g/cm3
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

Viscosity	Not available.
VISCOSILY	
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.

Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Chlorine.
Hazardous decomposition products	Carbon oxides.

# 11. Toxicological information

# Information on likely routes of exposure

	xposure
Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.
Information on toxicological effe	ects
Acute toxicity	Not available.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
	······································
Carcinogenicity	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
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IARC Monographs. Overall E Not listed. NTP Report on Carcinogens	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
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IARC Monographs. Overall E Not listed. NTP Report on Carcinogens Not listed. OSHA Specifically Regulated Not listed.	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Evaluation of Carcinogenicity
IARC Monographs. Overall E Not listed. NTP Report on Carcinogens Not listed. OSHA Specifically Regulated	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall E Not listed. NTP Report on Carcinogens Not listed. OSHA Specifically Regulated Not listed. Reproductive toxicity Specific target organ toxicity -	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Evaluation of Carcinogenicity d Substances (29 CFR 1910.1001-1050) This product is not expected to cause reproductive or developmental effects.
IARC Monographs. Overall E Not listed. NTP Report on Carcinogens Not listed. OSHA Specifically Regulated Not listed. Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity -	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Evaluation of Carcinogenicity d Substances (29 CFR 1910.1001-1050) This product is not expected to cause reproductive or developmental effects. Not classified.
IARC Monographs. Overall E Not listed. NTP Report on Carcinogens Not listed. OSHA Specifically Regulated Not listed. Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Evaluation of Carcinogenicity d Substances (29 CFR 1910.1001-1050) This product is not expected to cause reproductive or developmental effects. Not classified. Not classified.

# 12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

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

# 15. Regulatory information

**US** federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

**Hazard categories** 

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No

Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting) Not regulated.

## Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

### **US state regulations**

# US. Massachusetts RTK - Substance List

Graphite (CAS 7782-42-5) Mineral oil mist (CAS Not available)

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

Graphite (CAS 7782-42-5) Mineral oil mist (CAS Not available)

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

Graphite (CAS 7782-42-5) Mineral oil mist (CAS Not available)

# US. Rhode Island RTK

Not regulated.

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

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

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date	19-August-2015
Revision date	-
Version #	01
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0
NFPA ratings	
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