

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: May 22, 2024

1 – Identification

Product identifier

- **Trade name: Graphokote 691**
- **Product Description:** Water-based graphite coating
- **Recommended use:** Lubricant, protective coating
- **Restrictions on use:** Not intended for food & drug use
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Details of the supplier of the Safety Data Sheet

- **Manufacturer/Supplier:**
Asbury Carbons, Inc.
PO Box 144, 405 Old Main Street
Asbury, NJ 08802 USA
+1 908-537-2155
 - **Emergency telephone number:**
ChemTel 800-255-3924 (North America)
 +1 (813)248-0585 (International)
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2 - Hazards Identification

Classification of the substance or mixture: Not a hazardous substance.

Label Elements

GHS label elements

Not a hazardous substance. No label elements required.

- **Hazard pictograms:** none required
 - **Signal word:** none required
 - **Hazard statements:** none required
 - **Precautionary statements:** none required
 - **Additional information:**
Read the label and safety data sheet before use.
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3 – Composition/Information on Ingredients

Chemical characterization: Mixture

This mixture does not contain any chemicals at hazardous concentrations as defined by OSHA, 29 CFR 1910.1200, by WHIMIS, or GHS System of Classification & Labelling of Chemicals.

4 – First Aid Measures

Description of first aid measures

- **After inhalation:**

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Remove patient to particulate-free environment. Wear approved dust mask to avoid breathing dust.
Seek medical attention if irritation persists.

- **After skin contact:** Wash with mild soap and warm water.
 - **After eye contact:**
Rinse with tepid water until eyes are clear of particulates. Seek medical attention if irritation persists.
 - **After swallowing:**
Get immediate medical attention. Do not induce vomiting unless directed by medical personnel. Graphite is not known to be toxic by ingestion. However, ingestion may cause digestive system blockage.
 - **Most important symptoms and effects, both acute and delayed:** No relevant information available.
 - **Indication of any immediate medical attention and special treatment needed:**
If medical advice is needed, have product container or label at hand.
If necessary oxygen respiration treatment.
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5 – Fire Fighting Measures

Extinguishing media

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
 - **For safety reasons unsuitable extinguishing agents:** No relevant information available.
 - **Special hazards arising from the substance or mixture:**
At temperatures above 1500 C, graphite reacts with substances containing oxygen, including water and carbon dioxide. In case of intensely hot fire events, use sand to cover and isolate graphite.
 - **Advice for firefighters:** Use self contained air pack, gloves, safety goggles
 - **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
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6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures;

- Wear protective equipment. Keep unprotected persons away.
 - Ensure adequate ventilation.
 - Avoid formation of dust.
 - Particular danger of slipping on leaked/spilled product.
 - **Environmental precautions:**
Graphite is inert and insoluble and will not pose any soluble ion hazards to the environment. However, good housekeeping practices should be followed and spilled material should be cleaned up, and disposed of in an appropriate manner.
 - **Methods and material for containment and cleaning up:**
Contain spillage, and then collect with non-combustible absorbent material. Place in suitable, closed containers for disposal.
 - **Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
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7 – Handling and Storage

Handling

- **Precautions for safe handling:**

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Keep containers closed when not in use. Loosen closures slowly. Graphite is a conductor of electricity.
Avoid contact between graphite and electrical circuitry.

· **Information about protection against explosions and fires:**

No special instructions - material is not combustible.

Conditions for safe storage, including any incompatibilities

· **Requirements to be met by storerooms and receptacles:**

Store in cool, dry conditions in well sealed receptacles.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidizing agents.

· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

· **Specific end use(s)** No relevant information available.

8 – Exposure Controls/ Personal Protection

Control parameters

· **Components with limit values that require monitoring at the workplace:**

Component	CAS No.	TWA	Control Reference
Graphite	7782-42-5	2.0 mg/m ³	Respirable dust, 2014 ACGIH Handbook

Exposure controls

· **General protective and hygienic measures:**

Graphite spilled on pedestrian surfaces may pose a significant slip hazard

· **Engineering controls:** Provide adequate ventilation.

· **Breathing equipment:** Use approved dust mask, type N95 recommended.

· **Protection of hands:** Protective gloves. The glove material has to be impermeable and resistant to the product.

· **Eye protection:** Safety glasses. Follow relevant national guidelines concerning the use of protective eyewear.

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment:** No relevant information available.

· **Risk management measures:** No relevant information available.

9 – Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance:

Form: Liquid

Color: Grey to Black.

Odor: Mild

Odor threshold: Not determined.

pH-value: 10.5-11.2

Melting point/Melting range: Not determined.

Boiling point/Boiling range: 212°F (100°C)

Freezing Point: 32°F (0°C)

Flash point: The product is not flammable.

Flammability: Not flammable

Auto-ignition temperature: Not determined.

Decomposition temperature: Not determined.

Danger of explosion: Not applicable.

Explosion limits

Lower: Not determined.

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Upper: Not determined.

Oxidizing properties: Non-oxidizing.**Vapor pressure:** As water.**Relative density:** 1.16 g/ml**Vapor density:** As water.**Evaporation rate:** As water.**Solubility in / Miscibility with Water:** Dispersible**Partition coefficient (n-octanol/water):** Not determined.**Viscosity****Dynamic:** Not determined.**Kinematic:** Not determined.**Other information:** No relevant information available.

10 – Stability and Reactivity

Reactivity: No relevant information available.**Chemical stability:** Stable under normal temperatures and pressures.**Thermal decomposition / conditions to be avoided:**

No data available.

Possibility of hazardous reactions:

None known

Conditions to avoid: Graphite will begin to oxidize at temperatures above 450 C.**Incompatible materials:** Oxidizers**Hazardous decomposition products:** Carbon monoxide and carbon dioxide

11 – Toxicological Information

Information on toxicological effects**Acute toxicity:** Based on available data, the classification criteria are not met.**LD/LC50 values that are relevant for classification:** None.**Primary irritant effect:**

- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.

IARC (International Agency for Research on Cancer): None of the ingredients are listed.**NTP (National Toxicology Program):** None of the ingredients are listed.**OSHA-Ca (Occupational Safety & Health Administration):** None of the ingredients are listed.**Probable route(s) of exposure:**

Ingestion, Inhalation, Eye contact, Skin contact

Germ cell mutagenicity: Based on available data, the classification criteria are not met.**Carcinogenicity:** Based on available data, the classification criteria are not met.**Reproductive toxicity:** Based on available data, the classification criteria are not met.**STOT-single exposure:** Based on available data, the classification criteria are not met.**STOT-repeated exposure:** Based on available data, the classification criteria are not met.**Aspiration hazard:** Based on available data, the classification criteria are not met.

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12 – Ecological Information

Toxicity

Aquatic toxicity: No relevant information available.

Persistence and degradability:

Graphite is a reduced form of carbon and will not degrade further under normal conditions. This form of carbon is stable, unreactive in water under ambient conditions, and is insoluble

Bio-accumulative potential: There is no evidence indicating that graphite is bio-accumulative.

Mobility in soil: Graphite is not expected to have mobility in soil as it is an insoluble, inorganic substance.

Other adverse effects: No relevant information available.

13 – Disposal Considerations

Waste treatment methods**Recommendation:**

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Do not dispose in sewers or waterways.

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations.

14 – Transport Information

UN-Number

DOT, ADR/RID/ADN, IMDG, IATA: Not regulated.

UN proper shipping name

DOT, ADR/RID/ADN, IMDG, IATA: Not regulated.

Transport hazard class(es)

DOT, ADR/RID/ADN, IMDG, IATA: Not regulated.

Packing group

DOT, ADR/RID/ADN, IMDG, IATA: Not regulated.

Environmental hazards

Marine pollutant: No

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15 – Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture**United States (USA)**

SARA Section 302 (extremely hazardous substances): None of the ingredients are listed.

SARA Section 313 (Specific toxic chemical listings): None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All ingredients are listed or exempt.

Proposition 65 (California)

Chemicals known to cause cancer: None of the ingredients are listed.

Chemicals known to cause developmental toxicity for females: None of the ingredients are listed.

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Chemicals known to cause developmental toxicity for males: None of the ingredients are listed.

Chemicals known to cause developmental toxicity: None of the ingredients are listed.

EPA (Environmental Protection Agency):

None of the ingredients are listed.

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

Canadian Domestic Substances List (DSL):

All ingredients are listed or exempt.

16 – Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

Carc. 1A: Carcinogenicity – Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services

(ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

For other local and industry-specific regulatory declarations, please visit
<https://asbury.com/resources/asbury-carbons-regulatory-statements/>