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

Revision: April 17, 2024

1 – Identification

Product identifier

· **Trade name: Graphokote 652**
· **Product Description:** Oil-based graphite dispersion

· **Recommended use:** Lubricant
· **Restrictions on use:** Not intended for food and drug use

Details of the supplier of the Safety Data Sheet
· **Manufacturer/Supplier:**
Southwestern Graphite, Inc. (a division of Asbury Carbons Inc.)
2564 Highway 12
DeQuincy, LA 70633

· **Emergency telephone number:**
ChemTel 800-255-3924 (North America)
+1 (813)248-0585 (International)

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.

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:**
Move to fresh air. Oxygen or artificial respiration if needed. IF exposed or concerned: Get medical advice/attention..

· **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.

5 – Fire Fighting Measures

Extinguishing media

· **Suitable extinguishing agents:**
Halon. Dry chemicals. Foam. Carbon dioxide (CO2). Water spray or fog. Do not use water jet as an extinguisher, as this will spread the fire.
· **For safety reasons unsuitable extinguishing agents:**
Do not use water jet as an extinguisher, as this will spread the fire..
· **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.

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. Prevent entry into waterways, sewer, basements or confined areas. Avoid discharge to the aquatic environment.
· **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.

7 – Handling and Storage

Handling

· **Precautions for safe handling:**
Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands after handling and before eating. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. All handling to take place in well-ventilated area. Shower after work. Remove and wash contaminated clothing

promptly.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:**
Keep away from heat, sparks and open flame.
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
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	5 mg/m^3	Inhalable mist, ACGIH
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 petroleum
Odor threshold: Not determined.

pH-value: No data available.
Melting point/Melting range: Not determined.
Boiling point/Boiling range: > 600 °F (> 315 °C)

Flash point: >= 324 °F (>= 162 °C)
Flammability: Not flammable
Auto-ignition temperature: > 600 °F (> 315.56 °C)
Decomposition temperature: Not determined.
Danger of explosion: Not applicable.
Explosion limits

Lower: Not determined.
Upper: Not determined.
Oxidizing properties: Non-oxidizing.

Vapor pressure: Not determined.
Relative density: 1.10 g/ml
Vapor density: >5
Evaporation rate: Not determined.

Solubility in / Miscibility with Water: Insoluble
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.

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.
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.
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.

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.
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.

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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/