



SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 083332

CARTER OPEN GEAR GREASE

Date of the previous version: not applicable

Revision Date: 2015-05-06

Version 1

1. IDENTIFICATION

Product identifier

Product name CARTER OPEN GEAR GREASE

Other means of identification

Product Code(s) 083332

Number 7JJ
Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Lubricating grease.

Uses advised against Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheet

Supplier Address TOTAL Specialties USA Inc
1201 Louisiana Street, Suite 1800
Houston, TX 77002
Phone: +1 800 323 3198

Contact Point Technical/ HSEQ

E-mail Address USRMLIN-info@total.com

Emergency telephone number

Company Phone Number +1 (908) 862-9300
Emergency telephone CHEMTREC: +1 800 424 9300 (24h)

2. HAZARDS IDENTIFICATION

Classification

Serious eye damage/eye irritation - Category 2A

Label elements



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WARNING

Causes serious eye irritation

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Unknown Acute Toxicity

No information available

Hazards not otherwise classified (HNOC)

- None known

Other information

- Contaminated surfaces will be extremely slippery
- Should not be released into the environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|----------------------------|-----------|----------|
| Polyisobutylene | 9003-27-4 | 75-80 |
| Natural Amorphous Graphite | 7782-42-5 | 1-5 |

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice

If symptoms persist, call a physician. IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE. Show this material safety data sheet to the doctor in attendance.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If irritation persists, call a physician. Do not rub affected area.



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| | |
|-----------------------------------|---|
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. Remove and wash contaminated clothing before re-use. |
| Inhalation | If symptoms persist, call a physician. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract. Artificial respiration and/or oxygen may be necessary. |
| Ingestion | Clean mouth with water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician. |
| Protection of First-aiders | Use personal protective equipment. |

Most important symptoms/effects, acute and delayed

| | |
|---------------------|---|
| Skin contact | Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent. |
| Eye contact | Causes serious eye irritation. Avoid contact with eyes. |
| Inhalation | Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Ingestion | Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| Symptoms | Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Itching. Redness. |

Indication of immediate medical attention and special treatment needed, if necessary

| | |
|---------------------------|------------------------|
| Notes to physician | Treat symptomatically. |
|---------------------------|------------------------|

5. FIRE-FIGHTING MEASURES

| | |
|---|--|
| <u>Suitable Extinguishing Media</u> | Carbon dioxide (CO ₂). ABC powder. Foam. Water spray or fog. |
| <u>Unsuitable Extinguishing Media</u> | Do not use a solid water stream as it may scatter and spread fire. |
| <u>Special Hazard</u> | Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. |
| <u>Explosion Data</u> | |
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge | None. |
| <u>Protective Equipment and Precautions for Firefighters</u> | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel. |



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|----------------------------|---|
| General Information | Use personal protective equipment. Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. |
| Other information | See Section 12 for additional information. |

Environmental precautions

| | |
|----------------------------|--|
| General Information | Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses. See Section 12 for additional Ecological Information. |
|----------------------------|--|

Methods and materials for containment and cleaning up

| | |
|--------------------------------|--|
| Methods for cleaning up | Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Powdered material may form explosive dust-air mixtures. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. |
|--------------------------------|--|

7. HANDLING AND STORAGE

Precautions for safe handling

| | |
|---|--|
| Advice on safe handling | Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. |
| Prevention of fire and explosion | Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment. |
| Hygiene measures | When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Avoid breathing vapors, mist or gas. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets. |

Conditions for safe storage, including any incompatibilities



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Technical measures/Storage conditions

Keep out of reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from food, drink and animal feedingstuffs. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

Materials to Avoid

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|-------------------------|--|--|
| Natural Amorphous Graphite 7782-42-5 | TWA 2 mg/m ³ | TWA: 15 mg/m ³ TWA: 5 mg/m ³ (vacated) TWA: 2.5 mg/m ³ (vacated) TWA: 10 mg/m ³ (vacated) TWA: 5 mg/m ³ | IDLH: 1250 mg/m ³ TWA: 2.5 mg/m ³ |

Exposure controls

Engineering Measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

General Information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

Eye/Face Protection

If splashes are likely to occur, wear: Safety glasses with side-shields.

Skin and body protection

Wear suitable protective clothing. Protective shoes or boots.

Hand Protection

Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.



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Respiratory protection

None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Avoid breathing vapors, mist or gas. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

| | |
|----------------------|--------------------------|
| Appearance | smooth viscous |
| Color | black |
| Physical State @20°C | solid |
| Odor | Mild |
| Odor Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> | <u>Method</u> |
|------------------------------------|--------------------------|--------------------------|-------------------------|
| pH | | Not applicable | |
| Melting point/range | | No information available | |
| Boiling point/boiling range | | Not applicable | |
| Flash point | 192 °C 378 °F | | ASTM D 92 ASTM D 92. |
| Evaporation rate | < 1.0 | @ 25 °C | |
| Flammability Limits in Air | | No information available | |
| upper | - | No information available | |
| Lower | - | No information available | |
| Vapor Pressure | < 0.013 kPa @ 38 °C | | |
| Vapor density | > 8 | (Air = 1) | |
| Relative density | > 1.0 | @ 25 °C | |
| Density | > 1000 kg/m ³ | @ 25 °C | |
| Water solubility | | Not applicable | |
| Solubility in other solvents | | No information available | |
| logPow | | No information available | |
| Autoignition temperature | | No information available | |
| Decomposition temperature | | No information available | |
| Viscosity, kinematic | 647.3 mm ² /s | @ 99 °C | ASTM D 445 |
| Explosive properties | Not explosive | | |
| Oxidizing Properties | Not applicable | | |
| Possibility of hazardous reactions | Not applicable | | |



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Other information

Freezing Point

No information available

10. STABILITY AND REACTIVITY

Reactivity

No information available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.
Heat, flames and sparks. Take precautionary measures against static discharges. Strong oxidizing agents.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure

Product Information

Skin contact

Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.

Eye contact

Causes serious eye irritation. Avoid contact with eyes.

Inhalation

Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion

Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Numerical measures of toxicity - Product Information

| | |
|-------------------------------|------------|
| ATEmix (oral) | 6136 mg/kg |
| ATEmix (dermal) | 6537 mg/kg |
| Inhalation | |
| ATEmix (inhalation-dust/mist) | 22.6 mg/l |

Component Information



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| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|--|----------------------------|-----------------------------|
| Polyisobutylene 9003-27-4 | LD50 > 5000 mg/kg (Rat) | LD50 > 3000 mg/kg (Rabbit) | LC50 (4h) > 17.3 mg/l (Rat) |
| Natural Amorphous Graphite 7782-42-5 | LD50 > 2000mg/kg (Rat - female - OECD423) | | |

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Itching. Redness.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Not classified as a sensitizer.
Carcinogenicity This product is not classified carcinogenic.

Mutagenicity This product is not classified as mutagenic.
Reproductive toxicity This product does not present any known or suspected reproductive hazards.
Other adverse effects Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).
Aspiration Hazard Not classified.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute aquatic toxicity - Product Information

No information available

Acute aquatic toxicity - Component Information

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates | Toxicity to microorganisms |
|---|---|--|---|----------------------------|
| Natural Amorphous Graphite 7782-42-5 | EC50(72h) > 100 mg/l (Pseudokirchnerella subcapitata - static - OECD201) | LC50(96h) > 100 mg/l (Danio rerio - semi static - OECD203) | EC50(48h) > 100 mg/l (Daphnia magna - static - OECD202) | |

Chronic aquatic toxicity - Product Information

No information available

Chronic aquatic toxicity - Component Information

| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates | Toxicity to fish | Toxicity to microorganisms |
|---------------|-------------------|---|------------------|----------------------------|
| | | | | |



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|---|--|--|--|--|
| Natural Amorphous Graphite 7782-42-5 | NOEC(72h) > = 100 mg/l (Pseudokirchnerella subcapitata - static - OECD 201) | | | |
|---|--|--|--|--|

Effects on terrestrial organisms No information available.

Persistence and degradability

General Information No information available.

Bioaccumulative potential

Product Information No information available.

logPow No information available

Component Information No information available.

Mobility

Soil Given its physical and chemical characteristics, the product has no soil mobility.

Air Loss by evaporation is limited

Water The product is insoluble and floats on water

Other adverse effects

General Information No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods Dispose of in accordance with local regulations. Should not be released into the environment.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated



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ICAO/IATA Not regulatedIMDG/IMO Not regulatedADR/RID Not regulatedADN Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | no |
| Fire Hazard | no |
| Sudden Release of Pressure Hazard | no |
| Reactive Hazard | no |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|---|---------------|------------|--------------|----------|--------------|
| Lanolin 8006-54-0 | | | X | | X |
| Natural Amorphous Graphite 7782-42-5 | X | X | X | | |
| Molybdenum disulphide 1317-33-5 | X | | | | |



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| | | | | | |
|----------------------|---|---|---|--|---|
| Quartz 14808-60-7 | X | X | X | | X |
|----------------------|---|---|---|--|---|

16. OTHER INFORMATION

| | | | | |
|-------------|------------------------|-----------------------|--------------------------|--|
| NFPA | Health Hazard 2 | Flammability 1 | Instability 0 | Physical and chemical hazards - |
| HMIS | Health Hazard 2 | Flammability 1 | Physical Hazard 0 | Personal protection X |

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

Revision Date: 2015-05-06
Revision Note No information available
Abbreviations, acronyms

Legend

Section 8
 ACGIH - American Conference of Governmental Industrial Hygienists
 OSHA - Occupational Safety and Health Administration
 NIOSH - National Institute for Occupational Safety and Health
 TLV - Threshold Limit Values
 PEL - Permissible Exposure Limits
 IDHL - Immediately Dangerous to Life or Health concentrations
 TWA - Time Weight Average
 STEL - Short Term Exposure Limits
 S* - Skin notation
 TSCA - Toxic Substance Control Act

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of the safety data sheet