

SECTION 1 – IDENTIFICATION

Supplier: Novamen Inc.
111A, 4818 - 50th Avenue
Red Deer, AB T4N 4A3
Phone Number: 403-348-5956

Product Name: **Graphite Powder**
Product Use: *Lubricant and parting compound.*

Emergency Contacts:
CANUTEC 24-hour Emergency Phone Number: 1-613-996-6666
Chemtrec 24-hour Emergency Phone Number: 1-800-424-9300

SECTION 2 – HAZARD IDENTIFICATION



Signal Word:
Warning

GHS Classification of the Substance/Mixture Signal Word:
Eye Damage/Irritation: Category 2A
Specific Target Organ Toxicity - Single Exposure Category 3

Hazard Statement:
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Exclamation mark

Precautionary Statement Prevention
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.

Precautionary Statement Response
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	Percent	CAS Number
Graphite Powder	100.0	7782-42-5

All components of this product are listed on the Canadian Domestic Substances List.

SECTION 4 – FIRST AID MEASURES

Inhalation:

If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Ingestion:

Rinse mouth thoroughly with water immediately. Give plenty of water to drink. Seek medical advice.

Skin Contact:

Wash with plenty of soap and water. If irritation occurs seek medical advice.

Eye Contact:

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice.

First Aid Facilities:

Maintain eyewash fountain and safety shower in work area.

Advice to Doctor:

Treat symptomatically.

Other Information:

For advice, contact a Poisons Information or a doctor at once.

SECTION 5 – FIRE-FIGHTING MEASURES

Hazards from Combustion Products:

May liberate toxic fumes in fire include oxides of carbon. Small fire: Use dry chemical, CO₂, water spray or foam. Large fire: Use water spray, fog or foam.

Specific Methods:

If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

May burn but do not ignite readily. Containers may explode when heated. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive gases.

Specific Hazards Arising from the Chemical:

Wear SCBA and structural firefighter's uniform.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills & Disposal:

Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 15m. Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal.

Personal Precautions:

Avoid inhalation, contact with skin, eyes and clothing. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Personal Protection:

Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods – Small Spillages:

Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid generation or accumulation of dust. Avoid prolonged or repeated contact with skin and eyes. Wash hands and face thoroughly after working with material. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for Safe Storage, Including any Incompatibilities:

Store away from oxidizing agents. Keep containers closed at all times. Store in a cool, dry place. Protect from direct sunlight and moisture.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Other Exposure Information:

A time weighted average (TWA) has been established for Graphite (respirable dust) (Safe Work Australia) of 3 mg/m³. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

Appropriate Engineering Controls:

In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

Respiratory Protection:

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-face piece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

Eye Protection:

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Hand Protection:

Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Personal Protective Equipment; Footwear; Body Protection; Hygiene Measures:

Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken. Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use. Clean clothing or protective clothing should be worn, preferably with

an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection against Hazardous Chemicals. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid
Appearance:	Steel-gray to black powder with a metallic sheen.
Odour:	Odourless
Melting point:	2820° C
Solubility in Water:	Insoluble
Specific Gravity:	0.8 – 1.8
pH:	6 - 9 (50 g/l, H ₂ O, 20°C) (slurry)
Flammability:	May be combustible at high temperature.
Molecular Weight:	Not Applicable

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal use conditions.

Conditions to Avoid:

Incompatibles.

Incompatible Materials:

Strong oxidisers, halogens, chlorine trifluoride, fluorine and potassium superoxide.

Hazardous Decomposition Products:

May liberate toxic fumes in fire include oxides of carbon.

Possibility of Hazardous Reactions:

Reacts at 300° C with potassium, sodium, rubidium and cesium to give intercalation compounds. These compounds ignite in air and may react explosively with water.

Hazardous Polymerization:

Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Ingestion:

May be harmful by ingestion.

Inhalation:

Inhalation may be harmful. Material may cause irritation to mucous membranes and upper respiratory tract.

Skin/Eye:

May be harmful by absorption. May cause irritation. May cause irritation to the eyes.

Carcinogenicity:

No evidence of carcinogenic properties.

Mutagenicity:

No evidence of mutagenic properties.

SECTION 12 – ECOLOGICAL INFORMATION

Ecological Information:

No ecological problems are to be expected when the product is handled and used with due care and attention.

Ecotoxicity:

Quantitative data on the ecological effect of this product are not available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Considerations:

Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, provincial and federal government regulations.

SECTION 14 – TRANSPORT INFORMATION

TDG: Not regulated.

SECTION 15 – REGULATORY INFORMATION

Canadian Regulations:

WHMIS: Not regulated.
DSL/NDSL Listed on Canada's DSL List.

Regulatory Information:

Listed in the Australian Inventory of Chemical Substances (AICS).
US Federal Regulations
TSCA (UNITED STATES) The intentional ingredients of this product are listed.

SECTION 16 – OTHER INFORMATION

SDS Prepared by: Novamen HSE Department
Original Preparation Date: December 4, 2017
Revision Date:
Revision Number:
Reason for Revision:

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.