



# SAFETY DATA SHEET

INDUSTRIES 3R

## SECTION 1. IDENTIFICATION

**IDENTITY:**

Part Number:

GRA2550 / GRA2551

Identity:

Flexible graphite tape

Description:

Packing material

**SUPPLIER :**

**Industries 3R Inc.**

55, route 116 Ouest

Danville (Québec) J0A 1A0

Tel: 819-839-2793

Fax: 819-839-2797

## SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification:** Not classified as hazardous as defined by the GHS and OSHA 29 CFR 1910.1200.

**Label Elements:** None Required

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS#        | Percentage |
|-----------|-------------|------------|
| Graphite  | 7782-42-5   | 95-100%    |
| Adhesive  | Proprietary | 0-<1       |

## SECTION 4. FIRST AID MEASURES

**Eyes:** Flush with plenty of water, especially under eyelids. Get medical attention if irritation persists.

**Skin:** No first aid should be needed. Get medical attention if irritation occurs and persists.

**Inhalation:** If irritation or other symptoms occur, remove to fresh air. Get medical attention if irritation or symptoms persist.

**Ingestion:** No adverse effects are expected. Consult a physician if large amounts are swallowed.

**Most important symptoms/effects, acute and delayed:** Dust may cause mechanical eye irritation. Inhalation of dust may cause nose, throat and upper respiratory tract irritation.

**Indication of immediate medical attention and special treatment:** No immediate medical attention is required.

## SECTION 5. FIRE FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:** Use media appropriate for the surrounding fire.

**Specific hazards arising from the chemical:** This product will not support combustion. Accumulation of graphite dust may cause shorting of electrical devices.

**Special Fire Fighting Procedures:** Fight as any normal fire using self-contained breathing apparatus (SCBA) and full protective clothing where exposed to smoke.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment, and emergency procedures:** None required under normal conditions of use.

**Environmental hazards:** Report spill as required by local and federal regulations.

**Methods and materials for containment and cleaning up:** Pick-up solid material for reuse or disposal. For dust that may be generated, collect with methods such as vacuuming or wet wiping, that minimizes the generation of airborne dust. Only vacuum using a HEPA filter equipped vacuum cleaner.

## **SECTION 7. HANDLING AND STORAGE**

**Precautions for safe handling:** Avoid creation and inhalation of dust. Provide local exhaust ventilation at points where dust may be generated during cutting and processing. Do not use compressed air for cleaning. Follow good housekeeping procedures to minimize the accumulation of dust in the workplace.

**Conditions for safe storage:** No special storage required.

## **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure guidelines:**

| Component | Exposure Limit/Source  |
|-----------|--|
| Graphite  | 5 mg/m <sup>3</sup> TWA OSHA PEL (respirable), 15 mg/m <sup>3</sup> (total dust)<br>2 mg/m <sup>3</sup> TWA ACGIH TLV (respirable) |

**Definitions:**

PEL means OSHA Permissible Exposure Limit.

TLV means American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value.

TWA means time-weighted average.

STEL means short-term exposure limit.

**Appropriate engineering controls:** No special ventilation required for handling solid material. Local exhaust or process enclosures may be needed if dust is generated in processing.

**Personal Protective Measurers:**

**Respiratory Protection:** None required for handling solid material. If processing generates dust and engineering controls are not available to control the exposures, appropriate respiratory protection may be required. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

**Skin Protection:** None normally required. If dust is generated in processing, wear appropriate gloves.

**Eye Protection:** Follow facility requirements.

**Other Protective Equipment:** None normally required. Wear protective clothing in dusty environments.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance (physical state, color, etc.):** Grey tape

**Odor:** No odor.

|   |   |
|---|---|
| <b>Odor threshold:</b> Not applicable                         | <b>pH:</b> Not applicable                       |
| <b>Melting point/Freezing point:</b> Not applicable           | <b>Boiling point:</b> Not applicable            |
| <b>Flash point:</b> Not applicable                            | <b>Evaporation rate:</b> Not applicable         |
| <b>Flammability (solid, gas):</b> Not applicable              |   |
| <b>Flammable limits: LEL:</b> Not available                   | <b>UEL:</b> Not applicable                      |
| <b>Vapor pressure:</b> Not applicable                         | <b>Vapor density:</b> Not applicable            |
| <b>Relative density:</b> 2.0                                  | <b>Solubility:</b> Insoluble in water           |
| <b>Partition coefficient: n-octanol/water:</b> Not applicable | <b>Auto-ignition temperature:</b> Not available |
| <b>Decomposition temperature:</b> Not available               | <b>Viscosity:</b> Not applicable                |

## **SECTION 10. STABILITY AND REACTIVITY**

**Reactivity:** Not reactive.

**Chemical stability:** Stable

**Possibility of hazardous reactions:** None known.

**Conditions to avoid:** Accumulation of graphite dust may cause shorting of electrical devices.

**Incompatible materials:** Avoid contact with strong oxidizers.

**Hazardous decomposition products:** Thermal decomposition can yield carbon monoxide, carbon dioxide.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Potential Health Effects:**

**Eye Contact:** Dust may cause mechanical irritation or abrasion.

**Skin Contact:** Dust may cause mechanical irritation.

**Ingestion:** No toxic effects are expected. Ingestion of large amounts may cause gastrointestinal irritation.

**Inhalation:** Inhalation of dust may cause throat and upper respiratory tract irritation.

**Chronic Hazards:** None expected.

**Carcinogen:** None of the components of this product are listed as a carcinogen by IARC, NTP or OSHA.

### **Acute Toxicity Data:**

Graphite: Oral rat LD50 > 2000 mg/kg, Inhalation LC50 > 2.0 mg/L/4 hr (no mortalities occurred)

## **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity:**

Graphite: 96 hr LC50 Danio rerio > 100 mg/kg, 48 hr EC50 daphnia magna > 100 mg/L, 72 hr EC50

Pseudokirchnerella subcapitata > 100 mg/L

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available. Not expected to bioaccumulate.

**Mobility in soil:** No data available.

**Other adverse effects:** The product is not expected to cause adverse effects to aquatic organisms.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Dispose in accordance with all applicable local, state/provincial and federal regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

## **SECTION 14. TRANSPORT INFORMATION**

|     | UN Number | Proper shipping name | Hazard Class | Packing Group | Environmental Hazard |
|-----|-----------|----------------------|--------------|---------------|----------------------|
| DOT |           | Not Regulated        |              |               |                      |

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

**Special precautions:** None known.

**SECTION 15. REGULATORY INFORMATION**

**Safety, health, and environmental regulations specific for the product in question.**

**EPA SARA 311 Hazard Classification:** Not Hazardous

**EPA SARA 313 Chemicals:** This product contain the following chemicals listed under SARA 313: None

**Hazardous Substance (40 CFR 116) CERCLA:** This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**California Proposition 65:** This product contains the following chemicals known to the State of California to cause cancer and/or reproductive toxicity: None known

**SECTION 16. OTHER INFORMATION**

NFPA Hazard Rating: Health: 0 Fire: 1 Reactivity: 0

HMIS Hazard Rating: Health: 0 Fire: 1 Reactivity: 0

\* Chronic Health Hazard

**DISCLAIMER** – The information provided in this Safety Data Sheet is based on our current knowledge. While the information and recommendations set forth herein are believed to be accurate, Industries 3R takes no warranty with respect thereto and disclaims all liability in reliance thereon. We recommend testing according to local conditions. The specifications are subject to change without notice.