Material Safety Data Sheet



Poco Graphite Synthetic Graphite EDM Grade EDM-AF5, EDM-4, EDM-3, EDM-2, EDM-1, EDM-200, EDM-150, EDM 100

Section 1. Chemical product and company identification

Common name : Poco Graphite Synthetic Graphite EDM Grade EDM-AF5, EDM-4, EDM-3, EDM-2,

EDM-1, EDM-200, EDM-150, EDM 100

Material uses Electrical Discharge Machining (EDM) sinker electrodes, hot glass handling.

semiconductor tooling fixtures, and many others.

Supplier/Manufacturer In case of emergency

POCO Graphite Inc., 300 Old Greenwood Road, Decatur, TX 76234

: (800) 433-5547, ext. 4202 during normal business hours (800) 433-5547, ext. 4219 after normal business hours

Section 2. Hazards identification

Physical state

: Solid.

Emergency overview

: No specific hazard.

USE WITH CARE.

Follow good industrial hygiene practice.

Routes of entry

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eyes

No known significant effects or critical hazards.

Skin

: No known significant effects or critical hazards.

Inhalation Ingestion

: No known significant effects or critical hazards. No known significant effects or critical hazards.

Potential chronic health

effects

: Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Mutagenic effects: Not available. Teratogenic effects: Not available.

See toxicological information (section 11)

Section 3. Composition, Information on Ingredients

CAS number % by weight

United States

Graphite, synthetic

7440-44-0

>99

This material is classified as not hazardous under OSHA regulations. See Chapters 8, 11 and 14 for details.

Section 4. First aid measures

Eye contact

: Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.

Skin contact

: Wash with soap and water. Get medical attention if symptoms occur.

Inhalation

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical

attention if symptoms appear.

Ingestion

Date of issue

: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get

medical attention if symptoms appear.

Notes to physician

: No specific antidote. Medical staff must contact Poison Control Center.

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Section 5. Fire fighting measures

Flammability of the product: Non-flammable.

of various substances

Fire hazards in the presence: Flammable in the presence of the following materials or conditions: open flames, sparks

and static discharge.

Slightly flammable in the presence of the following materials or conditions: heat.

Use an extinguishing agent suitable for the surrounding fire.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Special remarks on fire

hazards

: Airborne dust. Weak explosion hazard.

Section 6. Accidental release measures

Personal precautions

: Minimize exposure to dust.

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

and sewers. See section 13 for waste disposal information.

Methods for cleaning up

: If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty

conditions and prevent wind dispersal.

Section 7. Handling and storage

Handling

: Wash thoroughly after handling. Maintain blocks as shipped, no specific handling or storage identified. Dust or powder from machining process should be kept in closed container

Storage

Maintain graphite blocks in stable position. Any machined generated dust should be

maintained in closed container

Section 8. Exposure controls, personal protection

Engineering controls

Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protection

Eyes

: Recommended: Safety glasses.

Respiratory

: A respirator is not needed under normal and intended conditions of

product use. If dust exceeds recommended exposure limits, select proper respirator based on particle size of dust generated.

Hands

: Wear suitable gloves.

>8 hour/hours (breakthrough time): Natural rubber (latex).

Skin/Body

: Body: Recommended: Lab coat.



of a large spill

Personal protection in case : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear MSHA/NIOSH-approved self-contained breathing apparatus or equivalent and full

protective gear.

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Poco Graphite Synthetic Graphite EDM Grade EDM-AF5, EDM-4, EDM-3, EDM-2, EDM-1, EDM-200, EDM-150, EDM 100

Product name **United States**

Exposure limits

Graphite, synthetic ACGIH (United States).

TWA: 10 mg/m³ 8 hour/hours. Form: Nuisance particulates.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Physical state : Solid.

Color Gray to black. Odor Odorless.

Molecular formula

Specific gravity : 1.4 to 2 (Water = 1)

Solubility : Insoluble in cold water, hot water.

Section 10. Stability and reactivity

Stability and reactivity : The product is stable.

Incompatibility with various: Reactive with oxidizing materials.

substances

Hazardous polymerization : Will not occur.

Section 11. Toxicological information

Acute Effects

Eyes : No known significant effects or critical hazards. Skin No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. : No known significant effects or critical hazards. Ingestion

Potential chronic health

effects

Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH

Mutagenic effects: Not available. Teratogenic effects: Not available.

Section 12. Ecological information

Products of degradation : These products are carbon oxides.

Section 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

Classification

DOT/ IMDG/ IATA: Not regulated.

Label

Not applicable.

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Alternational effects described by the contraction of the contraction



Additional information

Not applicable.

Section 15. Regulatory information

United States

HCS Classification : Not regulated.

U.S. Federal regulations : TSCA : All components listed.

SARA 302/304/311/312 extremely hazardous substances: Not listed. SARA 302/304 emergency planning and notification: Not listed. SARA 302/304/311/312 hazardous chemicals: Not listed.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Not listed.

Clean Water Act (CWA) 307: Not listed. Clean Water Act (CWA) 311: Not listed.

Clean Air Act (CAA) 112 accidental release prevention: Not listed. Clean Air Act (CAA) 112 regulated flammable substances: Not listed. Clean Air Act (CAA) 112 regulated toxic substances: Not listed.

State regulations

International lists

California prop. 65: No products were found.

International regulations

: All components listed are listed on major international inventories or exempted from

being listed in Australia (AICS), Europe (EINECS/ELINCS), Korea (TCCL), Japan

(METI/MOL), Philippines (RA6969).

Section 16. Other information

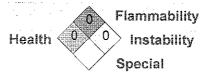
Hazardous Material Information System (U.S.A.)

Fire hazard 0

Reactivity 0

Personal protection C

National Fire Protection Association (U.S.A.)



References : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. -

29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous

Materials, UN#, Proper Shipping Names, PG.

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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