

*1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION *

| | | |
|---|--|--|
| Manufacturer's Name ACHESON COLLOIDS COMPANY 1600 Washington Ave. Port Huron, MI 48060 | Distributed By: Ladd Research 83 Holly Court Williston, VT 05495 Tel: (802) 658-4961 FAX: (802) 660-8859 email: sales@laddresearch.com | Emergency Telephone No: CHEMTREC DOMESTIC: 1-800-424-9300 INTERNATIONAL: 01-703-527-3887 (CALL COLLECT) |
| Chemical Family GRAPHITE IN WATER | | |

*2. COMPOSITION/INFORMATION ON INGREDIENTS *

| ---CAS Number--- | ---Ingredients--- | %WT/WT | Carcinogenicity | | |
|------------------|--|--------|-----------------|------|------|
| | | | NTP | IARC | OSHA |
| 7732-18-5 | Water | 30-60 | N | N | N |
| 9003-39-8 | Polyvinylpyrrolidone | 1-5 | N | N | N |
| 1333-86-4 | Carbon Black | 1-5 | N | Y | Y |
| 7782-42-5 | Graphite | 10-30 | N | N | N |
| ACCESS # 944 | Proprietary Non-OSHA Haz./Non-WHMIS Controlled | 10-30 | N | N | N |

----- Occupational Exposure Limits -----

| CAS Number | ACGIH TLV | OSHA PEL |
|--------------|-------------|-------------|
| 7732-18-5 | None Estab. | None Estab. |
| 9003-39-8 | None Estab. | None Estab. |
| 1333-86-4 | 3.50mg/m3 | 3.50mg/m3 |
| 7782-42-5 | 2.00mg/m3 | 5.00mg/m3 |
| ACCESS # 944 | None Estab. | None Estab. |

*3. HAZARDS IDENTIFICATION *

EMERGENCY OVERVIEW

Potential Health Effects --

INGESTION :

May be harmful if swallowed.

EYE CONTACT :

Causes slight eye irritation.

SKIN CONTACT :

May cause slight skin irritation.

OTHER SKIN CONTACT :

The components of this product are not expected to be absorbed through the skin.

INHALATION :

Dusts generated from sanding and grinding on surfaces coated with this product may be harmful if inhaled.

Dusts generated from this product may be harmful if inhaled.

CHRONIC:

This product contains polyvinylpyrrolidone. Some high molecular weight grades of this polymer have been associated with an increased incidence of tumors in laboratory animals. This material is approved as a food additive for human consumption.

This product contains carbon black which is classified by IARC as a 2B Carcinogen, Possibly Carcinogenic to Humans, based on "sufficient evidence in animals" and "inadequate evidence in humans."

This product contains graphite which can accumulate in lung tissue after long-term exposure to the dust. The potential for such exposure from the use of this product is very limited.

*4. FIRST AID MEASURES *

Ingestion :

If swallowed, wash out mouth with water provided person is conscious. Call Poison Control for further instructions. DO NOT INDUCE VOMITING.

Skin Contact:

If excessive skin contact with this product occurs, flush immediately with plenty of water, followed by washing with soap and water.

Eye Contact:

If this product is splashed into the eyes, flush eyes immediately with plenty of water for at least 15 minutes.

Inhalation :

If excessive amounts of dust are inhaled, remove to fresh air. Apply artificial respiration and other supportive measures as required. Consult a poison center, emergency room or lung specialist for additional information and guidance.

*5. FIRE FIGHTING MEASURES *

Flashpoint and Method : 212 F PENSKEY-MARTENS CLOSED CUP

Flammable Limits: Not Available

General Hazard :

Material can splatter above 100c/212f. Dried product can burn. Container may explode in heat of fire.

Fire :

Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks.

Small Fire Fighting Instructions :

Use extinguishing media appropriate for surrounding fire.

Large Fire Fighting Instructions :

Use extinguishing media appropriate for surrounding fire.

General Fire Fighting Instructions:

Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks.

Fire Fighting Equipment:

As in any fire, wear self-contained breathing apparatus (SCBA) and full protective gear.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS :

Oxides of Carbon

*6. ACCIDENTAL RELEASE MEASURES *

Spills :

Small Spills :

Take up with sand, earth or other noncombustible absorbent material.

Large Spills :

Dike far ahead of liquid spill for later disposal.

*7. HANDLING AND STORAGE *

STORAGE TEMPERATURE: Ambient.Keep from freezing.Preferred temperature 40 to 90 degrees F. Protect material from direct sunlight.

STORAGE PRESSURE: Atmospheric.

Keep container closed.Loosen closure cautiously before opening.Store in a cool well ventilated place away from incompatible materials.[See Stability and Reactivity,Section].Empty containers may retain hazardous properties.Follow all MSDS/Label warnings even after container is emptied.

Keep from freezing.

*8. EXPOSURE CONTROLS/PERSONAL PROTECTION *

ENGINEERING CONTROLS :

Provide sufficient mechanical ventilation to maintain exposure below TLV(s). Where ventilation is inadequate to remove vapors, mists and dusts generated from the use of this product, the use of a suitable NIOSH/MSHA-approved respirator should be considered. A North Respirator Cartridge with part # 75SCP100 with a North respirator would be suitable.

Eye Protection :

Wear safety glasses with side shields when handling this product.

Skin Protection :

Wear protective clothing or work uniforms and gloves constructed of material(s) which are appropriate to prevent contact with the chemicals listed in the ingredient section of the MSDS. Wear chemical-resistant gloves, such as neoprene or nitrile.

*9. PHYSICAL AND CHEMICAL PROPERTIES *

| | | | |
|---|---------------------|------------------|------------------|
| Vapor Pressure | : 17.00mm Hg at 20c | Vapor Density | : NOT AVAILABLE |
| Specific Gravity | : 1.12 | Evaporation Rate | : < BUAC |
| Solubility in Water | : 100% | Freezing Point | : 32 F |
| pH | : 7.0 TO 10.0 | Freezable | : Yes |
| Boiling Point | : 212 F | VOC | : 10 g/l |
| Viscosity (CPS) | : 50-200 | Reduced VOC | : N/A |
| Appearance | : BLACK | | |
| Product Use | | | : NOT DETERMINED |
| Odor | | | : NOT DETERMINED |
| Odor Threshold | | | : NOT DETERMINED |
| Coefficient of water/oil Distributon | | | : NOT DETERMINED |
| Auto-ignition Temperature | | | : NOT DETERMINED |
| Explosion Data-Sensitivity to Mechanical Impact | | | : NOT DETERMINED |
| Explosion Data-Sensitivity to Static Discharge | | | : NOT DETERMINED |
| Physical State | | | : NOT DETERMINED |

*10. STABILITY AND REACTIVITY *

GENERAL :

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIAL AND CONDITIONS TO AVOID :

Strong oxidizers.

*11. TOXICOLOGICAL INFORMATION *

| | |
|--------------------------------------|------------------|
| LD50 IS FOR ORAL RAT | : NOT DETERMINED |
| LC50 SPECIES AND ROUTE | : NOT DETERMINED |
| REPRODUCTIVE TOXICITY | : NOT DETERMINED |
| TERATOGENICITY | : NOT DETERMINED |
| EMBRYOTOXICITY | : NOT DETERMINED |
| MUTAGENICITY | : NOT DETERMINED |
| NAME OF SYNERGISTIC PRODUCTS/EFFECTS | : NOT DETERMINED |

*12. ECOLOGICAL INFORMATION *

NOT AVAILABLE

*13. DISPOSAL CONSIDERATIONS *

Care must be taken to prevent environmental contamination from the use of this material. 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.

*14. TRANSPORTATION INFORMATION *

DOT (Dept. of Transportation):
Not Regulated

Air Shipment (IATA):
Not Determined

Ocean Shipment (IMDG):
Not Determined

*15. REGULATORY INFORMATION *

SARA TITLE 3: Section 313 Information (40 CFR 372)

This product does not contain a chemical which is listed in Section 313 above DE MINIMIS concentrations
California Proposition 65:

WARNING: This product contains the following chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm.

| COMPONENT DESCRIPTION | CAS NUMBER |
|-----------------------|------------|
| Carbon Black | 1333-86-4 |

DSL- All components of this product are listed or are excluded from listing on the Canadian Domestic Substances List (DSL) Inventory.

TSCA- All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control ACT (TSCA) Chemical Substance Inventory.

*16. OTHER INFORMATION *

If this material is part of a multiple component system, read the MSDS(s) for the other component(s) before blending as the resulting mixture may have the hazards of all of its parts.
These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The reco-

mmended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

Prepared By: Safety, Health and Environmental Dept
PHONE: 1-810-984-5581

For more information on products manufactured at our California site call:

1-909-947-2228

Distributed By:
Ladd Research
83 Holly Court
Williston, VT 05495
Tel: (802) 658-4961
FAX: (802) 660-8859
email: sales@laddresearch.com