



SAFETY DATA SHEET

1. Identification

| | |
|---|--|
| Product identifier | GS-120 ROOT BARRIER |
| Other means of identification | None. |
| Recommended use | Not available. |
| Recommended restrictions | None known. |
| Manufacturer/Importer/Supplier/Distributor information | |
| Manufacturer | |
| Company name | CETCO, an MTI Company |
| Address | 2870 Forbs Avenue Hoffman Estates, IL 60192 United States |
| Telephone | General Information 800 527-9948 |
| Website | http://www.cetco.com/ |
| E-mail | safetydata@mineralstech.com |
| Emergency phone number | Emergency 1.866.519.4752/1 760 476 3962 |
| Americas | 1.866.519.4752 (US, Canada, Mexico) 1 760 476 3962 |

2. Hazard(s) identification

| | |
|--|--|
| Physical hazards | Not classified. |
| Health hazards | Not classified. |
| Environmental hazards | Not classified. |
| OSHA defined hazards | Not classified. |
| Label elements | |
| Hazard symbol | None. |
| Signal word | None. |
| Hazard statement | The mixture does not meet the criteria for classification. |
| Precautionary statement | |
| Prevention | Observe good industrial hygiene practices. |
| Response | Take off contaminated clothing and wash it before reuse. |
| Storage | Store away from incompatible materials. |
| Disposal | Dispose of waste and residues in accordance with local authority requirements. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | None. |

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|----------------------|---------------------------------|-------------------|----------|
| POLYVINYLCHLORIDE | | 9002-86-2 | 90 - 100 |
| Antimony trioxide | | 1309-64-4 | 3 - < 5 |

Constituents

| Chemical name | Common name and synonyms | CAS number | % |
|-----------------------------|---------------------------------|-------------------|----------|
| DIISODECYL PHTHALATE (DIDP) | | 26761-40-0 | <= 5 |
| Folpet | | 133-07-3 | <= 0.4 |

Composition comments Occupational Exposure Limits for constituents are listed in Section 8.

4. First-aid measures

| | |
|---|--|
| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| Skin contact | Wash off with soap and water. Get medical attention if irritation develops and persists. |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | Direct contact with eyes may cause temporary irritation. |
| Indication of immediate medical attention and special treatment needed | Treat symptomatically. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

5. Fire-fighting measures

| | |
|--|---|
| Suitable extinguishing media | Water spray. Foam. Powder. Carbon dioxide (CO ₂). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions | Use water spray to cool unopened containers. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | No unusual fire or explosion hazards noted. |

6. Accidental release measures

| | |
|--|---|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | For waste disposal, see section 13 of the SDS. |
| Environmental precautions | The product should not be dumped in nature but collected and delivered according to agreement with the local authorities. |

7. Handling and storage

| | |
|---|---|
| Precautions for safe handling | Avoid prolonged exposure. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | Store in tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS). |

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

| Components | Type | Value |
|--------------------------------------|------|-------|
| POLYVINYLCHLORIDE (CAS 9002-86-2) | STEL | 5 ppm |
| | TWA | 1 ppm |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|--------------------------------------|------|---------------------|----------------------|
| POLYVINYLCHLORIDE (CAS 9002-86-2) | TWA | 1 mg/m ³ | Respirable fraction. |

| Constituents | Type | Value | Form |
|-----------------------|------|---------------------|---------------------|
| Folpet (CAS 133-07-3) | TWA | 1 mg/m ³ | Inhalable fraction. |

| | |
|--|---|
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Appropriate engineering controls | Not available. |
| Individual protection measures, such as personal protective equipment | |
| Eye/face protection | No specific recommendations. |
| Skin protection | |
| Hand protection | No specific hand protection noted, but gloves may still be advisable. |
| Other | No special protective equipment required. |
| Respiratory protection | No protection is ordinarily required under normal conditions of use and with adequate ventilation. |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. |
| General hygiene considerations | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

9. Physical and chemical properties

| | |
|---|-----------------|
| Appearance | Sheets. |
| Physical state | Solid. |
| Form | Sheets. |
| Color | Not available. |
| Odor | Characteristic. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |

10. Stability and reactivity

| | |
|---------------------------|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |

| | |
|---|---|
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|--|
| Inhalation | Prolonged inhalation may be harmful. |
| Skin contact | Knowledge about health hazard is incomplete. |
| Eye contact | Knowledge about health hazard is incomplete. |
| Ingestion | Knowledge about health hazard is incomplete. |

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not known.

| Components | Species | Test Results |
|-----------------------------------|---------|--------------------------|
| Antimony trioxide (CAS 1309-64-4) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | > 20 g/kg 34600 mg/kg |

| Constituents | Species | Test Results |
|-----------------------|---------|----------------------|
| Folpet (CAS 133-07-3) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 22600 mg/kg |
| | Rat | 5000 mg/kg |
| Inhalation | | |
| LC50 | Rat | > 1.89 mg/l, 4 Hours |
| Oral | | |
| LD50 | Rat | 2636 mg/kg |

DIISODECYL PHTHALATE (DIDP) (CAS 26761-40-0)

| | | |
|-------------------|--------|-----------------------|
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 3160 mg/kg |
| Inhalation | | |
| LC50 | Rat | > 12.54 mg/l, 4 Hours |
| Oral | | |
| LD50 | Rat | 64000 mg/kg |

Skin corrosion/irritation Knowledge about health hazard is incomplete.

Serious eye damage/eye irritation Knowledge about health hazard is incomplete.

Respiratory or skin sensitization

ACGIH sensitization

FOLPET, INHALABLE FRACTION (CAS 133-07-3) Dermal sensitization

Respiratory sensitization Due to partial or complete lack of data the classification is not possible.

Skin sensitization Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Antimony trioxide (CAS 1309-64-4)

2B Possibly carcinogenic to humans.

POLYVINYLCHLORIDE (CAS 9002-86-2)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

POLYVINYLCHLORIDE (CAS 9002-86-2)

Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

| | |
|---|--|
| Reproductive toxicity | Due to partial or complete lack of data the classification is not possible. |
| Specific target organ toxicity - single exposure | Due to partial or complete lack of data the classification is not possible. |
| Specific target organ toxicity - repeated exposure | Knowledge about health hazard is incomplete. |
| Aspiration hazard | Due to partial or complete lack of data the classification is not possible. |
| Chronic effects | Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. |
| Further information | This product has no known adverse effect on human health. |

12. Ecological information

Ecotoxicity The polymer is expected to be of low toxicity.

| Components | | Species | Test Results |
|--|------|---|--------------------------------|
| Antimony trioxide (CAS 1309-64-4) | | | |
| Aquatic | | | |
| Algae | IC50 | Algae | 67 mg/L, 72 Hours |
| Crustacea | EC50 | Daphnia | 1000.0001 mg/L, 48 Hours |
| | | Water flea (Daphnia magna) | 361.5 - 496 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | > 80 mg/l, 96 hours |
| | | Fish | 833 mg/L, 96 Hours |
| Constituents | | Species | Test Results |
| Folpet (CAS 133-07-3) | | | |
| Aquatic | | | |
| Fish | LC50 | Lake trout, siscowet (Salvelinus namaycush) | 0.0214 - 0.0268 mg/l, 96 hours |
| DIISODECYL PHTHALATE (DIDP) (CAS 26761-40-0) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 0.02 mg/l, 48 hours |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | > 0.37 mg/l, 96 hours |

| | |
|--------------------------------------|---|
| Persistence and degradability | No data is available on the degradability of any ingredients in the mixture. |
| Bioaccumulative potential | No data available. |
| Mobility in soil | No data available. |
| Other adverse effects | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

13. Disposal considerations

| | |
|--|--|
| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

TSCA Chemical Action Plans, Chemicals of Concern

DIISODECYL PHTHALATE (DIDP) Phthalates Action Plan
(CAS 26761-40-0)

CERCLA Hazardous Substance List (40 CFR 302.4)

Antimony trioxide (CAS 1309-64-4) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

POLYVINYLCHLORIDE (CAS 9002-86-2) Cancer
Central nervous system
Liver
Blood
Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No (Exempt)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

California Proposition 65



WARNING: This product can expose you to chemicals including Antimony trioxide: Folpet, which are known to the State of California to cause cancer, and DIISODECYL PHTHALATE (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Antimony trioxide (CAS 1309-64-4) Listed: October 1, 1990
Folpet (CAS 133-07-3) Listed: January 1, 1989

California Proposition 65 - CRT: Listed date/Developmental toxin

DIISODECYL PHTHALATE (DIDP) Listed: April 20, 2007
(CAS 26761-40-0)

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Antimony trioxide (CAS 1309-64-4)
DIISODECYL PHTHALATE (DIDP) (CAS 26761-40-0)
Folpet (CAS 133-07-3)

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|-------------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

| | |
|-----------------------------|--|
| Issue date | 22-August-2019 |
| Revision date | 22-August-2019 |
| Version # | 05 |
| HMIS® ratings | Health: 0 Flammability: 0 Physical hazard: 0 |
| NFPA ratings | Health: 0 Flammability: 0 Instability: 0 |
| Disclaimer | CETCO, an MTI Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. |
| Revision information | Product and Company Identification: Alternate Trade Names |