



Grip-Flex

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Grip-Flex

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Thermoplastic Coal-Tar Emulsion (Slurry Seal)

1.3. Details of the supplier of the safety data sheet

Ameriseal of Ohio, Inc.
200 Weller Dr
Smithville, OH 44677 - USA
T 330.669.3441 - F 330.669.3062
info@grip-flex.com - www.grip-flex.com

1.4. Emergency telephone number

CHEMTREC
+1 703-741-5970 / 1-800-424-9300 CCN 858049

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS US classification

Carc. 1B H350

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :



GHS08

Signal word (GHS US) : Danger
Hazard statements (GHS US) : H350 - May cause cancer
Precautionary statements (GHS US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear personal protective equipment.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container to meet all regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	GHS US classification
Pitch, coal tar-petroleum	(CAS-No.) 68187-57-5	0 - 100	Carc. 1B, H350
Calcium chloride	(CAS-No.) 10043-52-4	0 - 1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : May cause respiratory irritation. Vapor or mist can cause headaches, nausea, irritation of the nose, throat and lungs.
- Symptoms/effects after skin contact : May cause irritation upon repeated or prolonged contact. Prolonged exposure to skin may lead to dermatitis, may sensitize skin to sunlight and cause sunburn-like reaction and may cause skin cancer.
- Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating. Can cause irritation, inflammation, conjunctivitis, and possible abrasion of the cornea.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Material will not burn, but may splatter above 1000 °C. / 2120 °F. Dry film can burn.
- Reactivity : This product is considered stable. Polymerization will not occur.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Use extinguishing media appropriate for surrounding fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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Other information : Keep spectators away. Floor may be slippery; use care to avoid falling. Wear respirator (pressure-demand, self-contained breathing apparatus, MSHA/NIOSH approved or equivalent) for large spills in confined area. Dike and contain spill with inert material (e.g. sand, earth). Transfer diking material to containers for recovery or disposal. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : This product is considered stable. Polymerization will not occur. There are no known materials which are incompatible with this product.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Children. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage area : Keep from freezing and extreme heat to protect quality of the product.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Grip-Flex	
ACGIH	Not applicable
OSHA	Not applicable

Pitch, coal tar-petroleum (68187-57-5)	
ACGIH	Not applicable
OSHA	Not applicable

Calcium chloride (10043-52-4)	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls

Appropriate engineering controls : Explosion-proof local exhaust ventilation at point of contaminant release. Safety shower. Emergency eye wash fountain with clean water.

Personal protective equipment : Avoid all unnecessary exposure.

Materials for protective clothing : Impervious clothing.

Hand protection : Wear protective gloves.

Eye protection : Chemical splash goggles (ANSI Z-87.1 or approved equivalent).

Respiratory protection : None required if good ventilation is maintained. Otherwise, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent).

Environmental exposure controls : Avoid release to the environment.

Other information : Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous liquid.
Color	: Black
Odor	: Mild
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: 0 equal to water
Melting point	: No data available
Freezing point	: 0 °C
Boiling point	: 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 17 at 20°C
Relative vapor density at 20 °C	: No data available
Relative density	: 1.13
Solubility	: Dilutable.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 2000 - 4000 cps
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

Additional information : Percent Volatile By Weight: 46-57%

SECTION 10: Stability and reactivity

10.1. Reactivity

This product is considered stable. Polymerization will not occur.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous fumes. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Calcium chloride (10043-52-4)	
LD50 oral rat	1000 mg/kg

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Calcium chloride (10043-52-4)	
LD50 dermal rabbit	> 5000 mg/kg
ATE US (oral)	1000 mg/kg body weight

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	: May cause respiratory irritation. Vapor or mist can cause headaches, nausea, irritation of the nose, throat and lungs.
Symptoms/effects after skin contact	: May cause irritation upon repeated or prolonged contact. Prolonged exposure to skin may lead to dermatitis, may sensitize skin to sunlight and cause sunburn-like reaction and may cause skin cancer.
Symptoms/effects after eye contact	: Direct contact with the eyes is likely to be irritating. Can cause irritation, inflammation, conjunctivitis, and possible abrasion of the cornea.

SECTION 12: Ecological information

12.1. Toxicity

Calcium chloride (10043-52-4)	
LC50 fish 1	10650 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	2280000 - 3948000 µg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

Grip-Flex	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Grip-Flex	
Bioaccumulative potential	Not established.

Calcium chloride (10043-52-4)	
BCF fish 1	(no bioaccumulation)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer	: No additional information available
Effect on the global warming	: No known effects from this product.
Other information	: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Allow water to evaporate and dispose dried solids by incinerating or burial in accordance with local, state, and federal regulations. May be subject to hazardous waste regulations in certain jurisdictions.
Ecology - waste materials	: Avoid release to the environment.

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SECTION 14: Transport information

In accordance with DOT

Not Evaluated

Additional information

Other information : No supplementary information available.

ADR

Not Evaluated

Transport by sea

Not Evaluated

Air transport

Not Evaluated

SECTION 15: Regulatory information

15.1. US Federal regulations

Pitch, coal tar-petroleum (68187-57-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Calcium chloride (10043-52-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Pitch, coal tar-petroleum (68187-57-5)	
Listed on the Canadian NDSL (Non-Domestic Substances List)	
Calcium chloride (10043-52-4)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

Pitch, coal tar-petroleum (68187-57-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Calcium chloride (10043-52-4)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

Pitch, coal tar-petroleum (68187-57-5)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Calcium chloride (10043-52-4)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

No additional information available

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SECTION 16: Other information

Other information : None.

Full text of H-phrases:

----- H302

----- H319

----- H350

Harmful if swallowed

Causes serious eye irritation

May cause cancer

GHS US SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.