

SDS SHEET



SECTION 1

Identification

Product identifier Hydro-Tuff ® HFA

Other means of identification Not Available

Recommended use Not available

Recommended restrictions None known

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer: Hydro-Gard, LLC

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Incident Spill, Leak, Fire,
Exposure, or Accident

CHEMTREC Day or Night
1-800-424-9300 / +1 703-527-3887 **CCN 825652**

SECTION 2

Hazard (s) Identification

Physical Hazards Not classified

Health hazards Not classified

Environmental hazards Not classified

OSHA defined hazards Not classified - No hazards as resulting from the material as supplied.

Label elements None

Signal word Not applicable

Hazard statement Not applicable

Prevention Not available

Response Not available

Storage Not available

Disposal Not available

Hazard(s) not otherwise classified (HNOC) Product is solid at room temperature and becomes liquid when heated for application. When heated at high temperatures it can release vapors and/or hydrogen sulfide.

Supplemental Information None

SECTION 3**Composition / Information on Ingredients****MIXTURES**

Components	CAS number	%
ASPHALT	8052-42-4	40 - 95
DISTILLATES (PETROLEUM) HYDROTREATED HEAVY NAPHTHENIC	647-52-5	0-15
MINERAL FILLER	MIXTURE	20-45
VULCANIZED RUBBER COMPOUND	MIXTURE	5-20
SBS BLOCK COPOLYMER	PROPRIETARY	1-10

SECTION 4**First - Aid Measures**

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention, if needed. Call a physician if symptoms develop or persist.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Do not attempt to remove molten product from skin as this will tear the skin easily. Seek medical help if the heated product makes skin contact promptly. Do not wait for medical attention to put cold water on the skin to decrease skin damages. Any cuts or abrasions should be treated as soon as possible. Thoroughly wash (or discard) clothing and shoes before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting. Do not use mouth-to-mouth method if victim ingested the substance. Call a POISON CENTER or doctor/physician if you feel unwell.
Most important symptoms/effects, acute and delayed	When product is heated the products fumes or vapor may irritate your nose, throat, bronchi, and lungs. Can cause dizziness, headaches, nausea, or unconsciousness. At elevated temperatures the hot liquid will cause severe skin burns. Avoid contact with skin as it can cause skin inflammation.
Indication of immediate medical attention and special treatment needed	In case of ingestion, the decision of whether or not to induce vomiting should be made by the attending physician. Certain pre-existing conditions may make workers particularly susceptible to the effects of this chemical: asthma, allergies, impaired pulmonary function.
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Discard any shoes or clothing items that cannot be decontaminated.

SECTION 5**Fire - Fighting Measures**

Suitable extinguishing media	Water fog. Foam, Dry chemical powder, Carbon dioxide (CO2). Addition of water or foam to the fire may cause frothing.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the substance	Fire may produce irritating, corrosive and/or toxic gases such as carbon oxides, and sulphur oxides. Development of hazardous combustion gases or vapors possible in the event of a fire. The following may develop: Acrolein.

Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. In the event of fire, cool tanks with water spray. By fire, toxic gases may be formed (COx, NOx). Keep run-off water out of sewers and water sources. Dike for water control. May release poisonous hydrogen sulphide gas.
Fire-fighting equipment/instruction	In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.
Specific methods	In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

SECTION 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Ventilate closed spaces before entering them. Do not touch or walk through spilled material.
Methods and materials for containment and cleaning up	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Dike far ahead of spill for later disposal. Following product recovery, flush area with water. Never return spills in original containers for re-use.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water. If this material is spilled into navigable waters and creates a visible sheen, it is reportable to the National Response Center.

SECTION 7 Handling and Storage

Precautions for safe handling	The product is non-combustible. If heated, irritating vapors may be formed. Do not use in areas without adequate ventilation. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a well-ventilated place. Keep container tightly closed and dry. Store in a closed container away from incompatible materials. Keep out of reach of children.

SECTION 8 Exposure Controls / Personal Protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
DISTILLATES (Petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-542-5)	PEL	5 mg/m3	Mist

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
ASPHALT (CAS 8052-42-4)	TWA	0.5 mg/m3	Inhalable fraction

US. Niosh: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
ASPHALT (CAS 8052 42-4)	Ceiling	5 mg/m3	Fume
DISTILLATES (Petroleum)	STEL	10 mg/m3	Mist
Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Mist

Biological limit values

No Biological exposure limits noted for the ingredient (s).

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Individual protection measures, such as personal protective equipment

Eye/face Protection	Wear safety glasses; chemical goggles (if splashing is possible). Wear chemical goggles; face shield (if handling molten material).
Hand protection	Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.
Other:	Wear suitable protective clothing and eye/face protection. Use of an impervious apron is recommended.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Thermal hazards	During product use, there is a risk of thermal burns.
General hygiene considerations	When using do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9

Physical and Chemical Properties

Appearance	Solid
Physical state	Solid (Liquid at 205°C - application temperature)
Form	Solid
Color	Dark Brown - Black
Odor	Tar Odor
Odor threshold	Not available
pH	Not available
Melting point/freezing point	150 - 250 °F (65.56 - 121.11 °C) ASTM D36 Softening Point
Initial boiling point and boiling range	>800 °F (426.67 °C)
Flash point	>400.0 °F (> 204.4 °C)
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	>700 °F (371.11 °C)
Decomposition temperature	Not available
Viscosity	Not available
Other information	
Density	Not available
Percent volatile	0%
Specific gravity	1 - 1.9
VOC Content	0%

SECTION 10 Stability and Reactivity

Reactivity	This product is stable
Chemical stability	Material stable under normal conditions
Possibility of hazardous reaction	Hazardous polymerization does not occur
Conditions to avoid	Strong oxidizing agents, and excessive heat
Incompatible materials	Incompatible with oxidizing agents
Hazardous decomposition products	Upon decomposition, product emits acrid dense smoke with carbon dioxide, carbon monoxide, trace oxides of nitrogen and sulfur, and water

SECTION 11 Toxicological Information

Information on likely routes of exposure Ingestion	May cause discomfort if swallowed, However, ingestion is not likely to be a primary route of occupational exposure.
Inhalation	May cause irritation to the respiratory system
Skin contact	Irritating to skin.
Eye contact	Causes eye irritation. Molten material will produce thermal burns.

Symptoms related to the physical, chemical and toxicological characteristics	Not available
Information on toxicological effects	
Acute toxicity	Not classified
Skin corrosion/irritation	Defats the skin. Causes irritation
Serious eye damage/eye irritation	Irritating to eyes
Respiratory or skin sensitization	
Respiratory sensitization	Not available
Skin sensitization	Irritating to skin
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic
Carcinogenicity	This product's is not considered to be a carcinogen, by ACGIH, IARC, NTP or OSHA
US, OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed
Reproductive toxicity	Not available
Specific target organ toxicity - single exposure	Not available
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure
Aspiration hazard	May be fatal if swallowed and enters airways
Chronic effects	Prolonged inhalation may be harmful. May cause eczema-like skin disorders (dermatitis).

SECTION 12

Ecological Information (non-mandatory)

Ecotoxicity	This product has no known eco-toxicological effects. Not expected to be harmful to aquatic organisms.
Persistence and degradability	Not available
Bioaccumulative potential	Not available
Mobility in soil	Not available
Other adverse effects	Not available

SECTION 13**Disposal Consideration (non-mandatory)**

Disposal Instructions	Dispose of contents/container in accordance with local/regional/nation/international regulations. When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.
Hazardous waste code	Not applicable
Waste from residues/unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Offer rinsed packaging material to local recycling facilities

SECTION 14**Transport Information (non-mandatory)**

DOT	Not regulated as dangerous goods
IATA	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods
Transportation in build according to Annex II of MARPOL 73/78 and the IBC Code	Not available
Further Information	If the product is shipped at ambient temperature, not regulated for transport by ground, air or vessel. If shipped above 212 deg F: "UN3257, Elevated Temperature Liquid, n.o.s. (Asphalt mixture), 9, PG III"

SECTION 15**Regulatory Information (non-mandatory)**

US Federal regulations	All components are on the U.S. EPA TXCA Inventory List. <ul style="list-style-type: none">TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulatedCERCLA Hazardous Substance List (40 CFR 302.4) Not ListedUS, OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not Listed
SARA	Superfund Amendments and Reauthorization Act of 1986
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No <ul style="list-style-type: none">SARA 302 Extremely hazardous substance - Not ListedSARA 311/312 Hazardous chemical - NoSARA 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 ® Accidental Release Prevention (40 CFR 68.130)

Not regulated

Safe Drinking Water Act (SDWA) - Not regulated

US state regulations

• US. Massachusetts RTK - Substance List

Not regulated

• US. New Jersey Worker and Community Right-to-Know Act

Not regulated

• US. Pennsylvania RTK - Hazardous Substances

Not regulated

• US. Rhode Island RTK

Not regulated

• US. California Proposition 65 - CRT: Listed date /Carcinogenic substance

Not Listed

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) NO
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) YES
Europe	European List of Notified Chemical Substances (ELINCS) NO
Japan	Inventory of Existing and New Chemical Substances (ENCS) YES
Korea	Existing Chemical List (ECL) YES
New Zealand	New Zealand Inventory YES
Phillippines	Phillippines Inventory of Chemicals and Chemical Substances (PICCS) 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).

SECTION 16

Other Information, Including date of preparation or last revision

Issue date	1-07-2015
Revision date	
Version #	01
References	ACGIH

EPA: AQUIRE database

nlm: Hazardous Substances Data Base

US, IARC Monographs on Occupational Exposures to Chemical Agents

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity

National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific materials or in any process, unless specified in the text.

Revision Information

None

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End of Safety Data Sheet