



1. IDENTIFICATION

Product Name: GTS Polymer Rubber Gel

Product Description: Specialty Construction Product: Fluid-Applied Waterproofing Membrane

Manufacturer/Supplier: RE-Systems Group Americas, Inc. 1136 114th Ln NW, Suite400, Minneapolis, MN 55448

Phone Number: 612-872-1900 (Monday - Friday 8:00 am to 5:00 pm)

CHEMTREC (Emergency): 1-800-424-9300

Revision Date: May 01, 2015

MSDS Date: December 12, 2010

Safety Data Sheet according to OSHA's Hazcom Standard (29 CFR 1910.1200).

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture: The product does not meet the criteria for classification as hazardous under the GHS and 29 CFR 1910.1200.

Label Elements:

GHS Label Elements: Void.

Hazard Pictograms: Void.

Signal Word: Void.

Hazard Statements: Void.

Classification System:

NFPA Ratings (scale 0 - 4)



Health = 1

Fire = 1

Reactivity = 0

HMIS Ratings (scale 0 - 4)

HEALTH	1
FIRE	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

Other Hazards:

Results of PBT and vPvB Assessments:

PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component Name</u>	<u>CAS#/Codes</u>	<u>Ingredient %</u>
Asphalt (Bitumen)	8052-42-4	31-50%
Process Oil	68791-76-6	21-30%
Waste Tire Rubber Chip	N/A	11-25%
Hydro-treated Raffinate	64742-57-0	8-15%
Hydrocarbon Resin	64742-16-1	1-5%
Polyolefin (1-Propene)	9003-07-0	1-5%

Non-Hazardous Statement: the remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product.



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4. FIRST AID MEASURES

Eyes: May cause irritation if exposed to fumes from burning material. Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin: No adverse effects to skin under normal ambient conditions. If heated to elevated temperatures, contact may cause thermal burns. If molten material comes in contact with skin, cool under ice water or running stream of water. Do not attempt to remove the material from the skin as this may result in severe tissue damage. Seek medical attention immediately.

Ingestion: Not likely to be ingested in present form. Very low toxicity if particles are swallowed, may cause choking. May cause gastrointestinal blockage. If swallowed, seek medical attention immediately.

Inhalation: Product cannot be inhaled in solid state at ambient temperature. Product is not intended for high heat applications. Vapors/fumes released during high heat or burning of product may cause respiratory irritation. Should not breathe fumes if this occurs. Remove person to fresh air if fumes are inhaled from burning product. Seek medical attention if symptoms persist.

Advice to Physicians: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Use dry chemical, foam, CO₂. Use water to cool fire-exposed containers and to protect personnel. Treat as fuel oil or hydrocarbon fire.

Unsuitable Media: None.

Unusual Fire Hazards: DO NOT direct water into a container or directly onto hot product, a vessel or storage tank containing hot product, as it may cause violent eruptions and spreading of hot product. Hot product may ignite flammable materials on contact.

Hazardous Decomposition Products: Primary combustion products are carbon monoxide, carbon dioxide, and water. Combustion products may include sulfur oxides, and hydrogen sulfide. Other undetermined compounds could be released in small quantities.

Special Firefighting Procedures: Wear self-contained breathing apparatus (SCUBA) and full firefighting protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personnel Precautions: Avoid contact with skin and eyes. Isolate area and keep unnecessary personnel away.

Environmental Precautions: Avoid dispersal of spilled material and runoff into storm sewers, ditches, and waterways.

Methods for Containment: Contain spills with an inert absorbing material, such as soil, sand or oil dry. Prevent from spreading by diking or other means.

Methods for Cleanup: Put into a suitable container for disposal. Transfer to properly labeled containers. Evaluate residue to determine if it is a hazardous waste by characteristic (D001). Dispose of in accordance with Local, State, Federal, and Provincial regulations.

7. HANDLING AND STORAGE

Handling: DO NOT get this material in your eyes, or on your skin, or on your clothing, and avoid inhaling vapors, fumes or mist. Use this product with adequate ventilation.

Storage: Store in cool, dry and well ventilated area away from sources and incompatible materials. Keep container closed when not in use. Keep away from heat, sparks, or open flame. Assure proper ventilation of storage or shipping containers to prevent accumulation of hazardous concentration of off-gassed hydrocarbon gas.

Work Practices: Handle in accord with good industrial hygiene and safety practices. These include avoiding any unnecessary exposure and removal of the material from the skin, eyes and clothing.

Special Handling: Hydrogen sulfide, an extremely flammable, colorless, highly toxic gas, is emitted from heating asphalt (a major ingredient in product) and may accumulate in storage tanks and bulk transport containers.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits.

Eye/Face Protection: Wear safety glasses with side shields or goggles. Wear a face mask when splash hazard exists.

Skin Protection: Wear cloth work clothing including long pants and long-sleeved shirts. Wear gloves. When handling hot material, wear heat-resistant protective gloves that are able to withstand the temperature of molten product. Wear suitable protective footwear.

Respiratory Protection: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hygiene Practices: Wash exposed areas thoroughly after handling this product. Wash hands and arms frequently. Shower after exposure. Wash work clothes when soiled. Avoid contact with skin, eyes and clothing.

Exposure Guidelines:	OSHA	NIOSH	ACGIH®	Ontario CA	Alberta CA	MEXICO
Asphalt (Bitumen) fume	None Listed	REL-Ceiling: 5mg/m ³ over a 15 minute period	TLV-8hr, TWA: 0.5mg/m ³ as soluble aerosol (inhalation fraction)	See ACGIH	8hr, TWA: 5mg/m ³	8hr, TWA: 5mg/m ³
Hydrocarbon Resin	See NIOSH	REL-TWA: 5mg/m ³ (oil mist)	TLV-TWA: 5mg/m ³ (oil mist)	N/A	N/A	N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid/semi-solid (viscid).

Color: Black.

Odor: Soft asphalt odor.

pH: N/A.

Specific Gravity: .9 - 1.0.

Boiling Range/Point (°C/°F): 371°-400°C/700°-752°F.

Melting Point (°C/°F): N/A.

Flash Point (PMCC) (°C/°F): 218°C/425°F.

Vapor Pressure: N/A.

Vapor Density: (Air=1) N/A.

Solubility in Water: Nil, Insoluble.

Peel Strength: 1.01 lbf./in.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Hazardous Polymerization: Hazardous polymerization does not occur.

Conditions to Avoid: Keep away from heat, sparks, or open flame. Do not allow hot, molten product to contact water as this may cause violent eruptions and spreading of hot product.

Incompatible Materials: This product may react with strong oxidizing agents.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide. Combustion products may include sulfur oxides and hydrogen sulfide.



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11. TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.

Likely Routes of Exposure: Inhalation. Exposure to product vapors may result in irritation to the respiratory tract. Prolonged exposure in excess of the TLV may result in acute toxic effects.

Acute Toxicity:

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Asphalt (Bitumen) fume	N/A	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Process Oil	3900 mg/m ³ /4hr inhaled	N/A	N/A
Hydrocarbon Resin	N/A	> 7000 mg/kg (mammal)	N/A
Polyolefin	N/A	> 8000 mg/kg (rat)	N/A

Skin Corrosion/Irritation: May cause dermatitis. Heated material may cause burns.

Serious Eye Damage/Irritation: Symptoms include slight redness and pain.

Respiratory and/or Skin Sensitization: Not hazardous by OSHA/WHMIS criteria.

Carcinogenicity:

Chemical Name	IARC	ACGIH®	NTP	OSHA
Asphalt (Bitumen) fume	Group 3	A4		
Process Oil	Group 3	A4		
Polyolefin	Group 3	A4		

IARC has stated that occupational exposure to asphalt and its emissions during road paving or roofing is a possible human carcinogen.

Reproductive Toxicity:

Development of Offspring: Not hazardous by OSHA/WHMIS criteria.

Sexual Function and Fertility: This product is not reported to have any reproductive toxicity effects.

Effects on or via Lactation: N/A.

Germ Cell Mutagenicity: N/A.

Interactive Effects: N/A.

12. ECOLOGICAL INFORMATION

Environmental Affects: No known significant effects or critical hazards when used and disposed of as intended.

Toxicity: N/A.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: N/A.

Mobility in Soil: Semi-solid. Insoluble in water.

Other Adverse Effects: N/A.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Dispose of in accordance with all applicable local and national regulations. Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. Dispose of unused product through an authorized waste contractor to a licensed site. Do not empty into drains, sewers or water course.

Used/Contaminated Product: Same as used product.

Packaging: The method of disposal must be acceptable to the local authority.



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14. TRANSPORT INFORMATION

Not regulated under US DOT Regulations. Not regulated under Canadian TDG Regulations.

UN-Number: DOT, ADR, ADN, IMDG, IATA - N/A.

UN Proper Shipping Name: DOT, ADR, ADN, IMDG, IATA - N/A.

Transport Hazard Class(es): DOT Class, ADR, ADN, IMDG, IATA - N/A.

Packing Group: DOT, ADR, IMDG, IATA - N/A.

Special Precautions for User: N/A.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations:

USA:

Toxic Substances Control Act (TSCA) Section 8(b): This product and/or its components are listed on the TSCA Chemical Inventory. Additional reporting (Tier II, Tier I, or Chemical Release Reporting) may be required.

Additional USA Regulatory Lists: RCRA Hazardous Waste Number: Not Listed RCRA Hazardous Waste Classification (40 CFR 261): This material should be hazardous due to characteristics. CERCLA: Not listed CERCLA Reportable Quantity (RQ): This material, in its solid form, is not a listed hazardous substance and does not have a reportable quantity. However, if spilled in liquid form into waters of the U.S., it may be reportable under the Clean Water Act. SARA Title III - Section 311/312: Fire - No, Pressure - No, Reactivity - No, Immediate (acute) - Yes, Delayed (chronic) - Yes. OSHA Regulations OSHA Specifically Regulated Substance: No.

Canada:

All components of this product are on the Domestic Substances List (DSL) or are exempt and are acceptable for use under the provision of CEPA. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL): The components of this product are in compliance with the chemical notification requirements of the NSN Regulation under CEPA, 1999.

16. OTHER INFORMATION

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists

CAS#: Chemical Abstracts Service Number

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

N/A: Denotes no applicable information found or available

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

The information and recommendations presented in this SDS are based on sources believed to be accurate. RE-Systems Group Americas, Inc. assumes no liability for the accuracy or completeness of this information. In particular, we make NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use or disposal of the material is in accordance with applicable Federal, State, and local laws and regulations. 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.