



HARWICK
S T A N D A R D

Safety Data Sheet
VULCANIZING AGENT IS-HS-7020 PWD-D
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SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: VULCANIZING AGENT IS-HS-7020 PWD-D

Other means of identification

Chemical name: Polymeric Sulfur with Naphthenic Oil

Synonyms: Insoluble High-Stability Sulfur, Oil Treated

Recommended use and restrictions on use: Vulcanizing Agent

Supplier information:

Manufactured for and supplied by:

Supplier: Harwick Standard Distribution Corporation

Supplier Address: 60 S. Seiberling Street, Akron, OH 44305

Contact: Health, Safety & Environment

Telephone: 330-798-9300

Website: www.harwickstandard.com

SECTION 2 – HAZARD(S) IDENTIFICATION

Classification of the substance or mixture:

Skin Irritant, Category 2

Combustible dust

OSHA Regulatory Status: Classified as hazardous based on components.

GHS Label Elements

Hazard symbol:



Signal word: Warning

Hazard statements:

Causes skin irritation.

May form combustible dust concentrations in air.

Precautionary Statements:

Wash skin thoroughly after handling.

Wear protective gloves/protective clothing.



IF ON SKIN: Wash with plenty of soap and water.
If irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
Keep away from heat/sparks/open flame-No smoking.
Take precautionary measures against static discharge.
Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Hazard(s) not otherwise classified (HNOC): None known.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture:

<u>Components</u>	<u>Chemical Identity</u>	<u>CAS Number</u>	<u>Weight%</u>
	Polymeric sulfur	9035-99-8	70-80%
	Sulfur	7704-34-9	5-15%
	Naphthenic Oil	Various	15-25%

Any concentrations shown as a range is to protect confidentiality or is due to batch variation.
Occupational exposure limits, if available, are listed in Section 8.

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove affected person to fresh air. Get medical attention if symptoms occur. If breathing is difficult, give oxygen. In not breathing, give artificial respiration.

Ingestion: If swallowed, rinse mouth with water. Never give anything by mouth to an unconscious person. Only induce vomiting at the instruction of medical personnel. Remove affected person to fresh air and keep at rest in position comfortable for breathing. Seek medical advice.

Skin contact: Wash skin thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if symptoms occur.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Do NOT rub eyes. Get medical attention if symptoms occur.

General Advice: In case of overexposure or if symptoms develop, seek medical attention. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this Safety Data Sheet to the physician in attendance.

Most important symptoms/effects, acute and delayed:



Eye contact:	Dust contact with the eyes can lead to mechanical irritation and cause redness, swelling, tearing and pain.
Inhalation:	Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.
Skin contact:	Skin contact may cause redness, swelling and itching. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May cause an allergic skin reaction.
Ingestion:	Illness may occur after a single swallowing of relatively large quantities of this material. May cause irritation of the gastrointestinal tract.

Notes to physician: Provide symptomatic/supportive care as necessary. Treatment based on sound judgment of physician and individual reactions of patient.

Indication of immediate medical attention and special treatment needed: Specific treatments in any case must be based on the physician's judgment and in response to the patient's reactions.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing method: In case of fire, use water spray, fog, foam, carbon dioxide (CO₂), dry chemical or foam.

Unsuitable extinguishing method: To avoid generating combustible dusts, do NOT use water jet to fight fire.

Specific hazards arising from chemical: Combustible dust when in finely divided and highly suspended state. Powdered material may form explosive dust-air mixtures. In case of fire, toxic and corrosive gases may be formed. Can cause delayed lung injury. Runoff may pollute water system. Hazardous combustion products: Oxides of Sulfur.

Combustion products: Hazardous combustion products: Oxides of Sulfur. Toxic emissions may result if product is involved in a fire. Fire produces carbon monoxide and carbon dioxide gases.

Special firefighting equipment and precautions for firefighters: Fight fire from a safe distance and from a protected location. Use water spray to cool fire exposed surfaces. Avoid breathing smoke or fumes. Firefighters should wear a self-contained breathing apparatus (SCBA) operating in positive pressure mode and full protective clothing for combating fires. To avoid generating combustible dusts, do NOT use water jet to fight fire. Do not allow runoff to enter drains or waterways or drinking water.



SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Keep unauthorized personnel away. Prevent dust cloud. Eliminate all ignition sources. No smoking, flares sparks or flames in immediate area. Avoid breathing dust/fume/vapors. Avoid contact with eyes skin and clothing. Wear appropriate personal protective equipment. See Section 8 of the SDS.

Methods and materials for containment and cleaning up:

Isolate area and remove ignition sources and work with non-sparking tools.

Small spills: Remove small spills with vacuum cleaner. Collect in containers and seal securely.

Large spills: Use non-sparking tools and explosion-proof equipment. Collect spillage in containers, seal securely and properly dispose according to local regulations.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Clean up spills immediately and dispose of waste safely. Do not allow discharge into the environment-water runoff can cause environmental damage. In the event of a spill or accidental release that cannot be contained, notify the relevant authorities in accordance with all applicable regulations.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling: Handle product only in closed system or provide appropriate exhaust ventilation. Eliminate all ignition sources. Material can accumulate static charges which may cause an electric spark. Minimize dust generation and accumulation. Wear appropriate personal protective equipment. See Section 8 of SDS. Avoid breathing dust. Avoid breathing vapor from heated material. In case of inadequate ventilation, use respiratory protection. Avoid contact with eyes, skin and clothing. Remove contaminated clothing and wash skin thoroughly with soap and water after work. Handle in accordance with good industrial hygiene and safety practices. Avoid contact with oxidizing agents.

Conditions for safe storage, including any incompatibilities: Store closed containers in a cool, dry, well-ventilated area. Avoid direct sunlight and static electricity. Keep material away from heat sources and sources of ignition. Keep from contact with oxidizing materials.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Component

Exposure Limits

Sulfur

OSHA PEL/8Hr-TWA = 15 mg/m³ (Total Dust)

OSHA PEL/8Hr-TWA = 5 mg/m³ (Respirable Dust)

ACGIH TLV/8Hr TWA = 10 mg/m³ (Inhalable particles)

Naphthenic Oil

OSHA PEL/8Hr-TWA = 5 mg/m³ (Mist)

ACGIH TLV/8Hr TWA = 5 mg/m³ (Inhalable fraction)



Appropriate engineering controls: General, local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during use of this product. Adequate ventilation should be provided to keep dust concentration below acceptable exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations. Facilities storing or utilizing this material should be equipped with eye wash station(s) and safety shower(s).

General Hygiene Measures: Handle in accordance with good industrial hygiene. Do not eat, drink or smoke when using this product. Wash at the end of each work day and before eating, drinking smoking and using the toilet. Contaminated clothing should not be allowed out of the workplace. Launder contaminated clothing before reuse.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety glasses with side shields (or goggles).

Skin/Hand protection: Wear impervious gloves to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with good laboratory practices. Wash hands with soap and water.

Body protection: To protect the body, wear impervious clothing such as coveralls, apron, boots to minimize skin contact. Select protective equipment according to the concentration and amount of the dangerous substance at the specific workplace. Launder contaminated clothing before reuse.

Respiratory protection: Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. If dust is generated, wear NIOSH-approved dust respirator or dust mask. If engineering controls do not maintain airborne concentrations below recommended exposure limits or to an acceptable level, an approved respirator must be worn. Use NIOSH approved full-face organic cartridge filter respirator, air supplied respirator or SCBA. Respirators should be selected and used in accordance with OSHA, Subpart 1 (29 CFR 1910.134).

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Yellow Powder
Odor:	Mild
Decomposition Temperature:	No data available
Odor Threshold:	No data available
pH:	No data available
Boiling Point/Range:	Sulfur 445°C
Melting Point/Freezing Point:	Sulfur 108°C



Flash Point (°C):	165°C (329°F)
Flammable/Explosion Limits:	No data available
Relative Density (Specific Gravity):	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
Solubility:	Insoluble in water
Evaporation Rate:	No data available
Partition Coefficient: (n-octanol/water)	No data available
Auto-ignition Temperature:	No data available
Viscosity:	No data available
Explosive Properties:	No data available

SECTION 10 - STABILITY & REACTIVITY

Reactivity: Stable under normal conditions.

Chemical stability: Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation.

Possibility of hazardous reactions: Dust may form explosive mixture with air.

Conditions to avoid: Keep away from heat, sparks and flame. Avoid generating dust. Prevent dust accumulation. Avoid excessive heat.

Incompatible materials: Strong oxidizing agents. Strong bases. Amines. Avoid contamination of product with small amounts of water.

Hazardous decomposition products: In case of fire, toxic and corrosive gases may be formed. Sulfur dioxide gas may be liberated from the product.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral: LD50 (Rat): >4,000 mg/kg

Dermal: LD50 (Rabbit): >2,000 mg/kg

Inhalation: Not determined

Irritation/Corrosion:

Skin: Sulfur-May cause eczema-like skin disorders (dermatitis).

Naphthenic oil-Non-irritating to the skin.

Eyes: Sulfur-Not irritating

Naphthenic oil-Slightly irritating



Respiratory: No data available

Sensitization:

Skin: Sulfur-Not a skin sensitizer.
Naphthenic oil-Non-sensitizing.

Respiratory: No data available

Mutagenicity:

Sulfur-Negative
Naphthenic oil- Negative

Carcinogenicity:

This product or its components present at 0.1% or more is not listed as a carcinogen or suspected carcinogen by NTP, IARC or OSHA.

Reproductive/Developmental toxicity: Sulfur-No known significant effects or critical hazards.
Naphthenic oil- No known significant effects or critical hazards.

Specific target organ toxicity-single exposure: No data available

Specific target organ toxicity-repeated exposure: No data available

Aspiration hazard: Not applicable

Information on likely routes of exposure: Routes of entry: Eyes, Inhalation, Dermal-Skin

Potential acute health effects/ Symptoms related to the physical, chemical and toxicological characteristics:

Eye contact: Dust contact with the eyes can lead to mechanical irritation and cause redness, swelling, tearing and pain.

Inhalation: Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

Skin contact: Skin contact may cause redness, swelling and itching. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May cause an allergic skin reaction.

Ingestion: Illness may occur after a single swallowing of relatively large quantities of this material. May cause irritation of the gastrointestinal tract.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Long term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available.



SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: LC50 (96 hr) : >1,000 mg/L (Bluegill)
LC50 (96 hr) : >1,000 mg/L (Rainbow Trout)
Crustaceans: LC50 (48 hr) : >1,000 mg/L (Daphnia magna)

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Bioconcentration factor: No data available

Mobility in soil: No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal instructions: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Empty containers should be handled in a manner not to cause dusting during collection, transportation and disposal. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues and must be treated as waste. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14 - TRANSPORTATION INFORMATION

U.S. DOT: Not DOT regulated.

SECTION 15 - REGULATORY INFORMATION

U.S.:

TSCA Inventory Status: Chemical components are listed or exempt.

Title III SARA Status:

SARA Section 311 & 312-Hazardous Categories

Immediate. Fire Hazard



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SARA Section 313-Toxic Chemicals

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372: None

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

SECTION 16 - OTHER INFORMATION

Issue date: 12-11-2015

Version #: 01

Revision Information: GHS Format

Additional information: Napthenic Oils used for oil-treatment/dedusting may be one or more of the following: CAS No. 64742-52-5, 64742-53-6, 64742-65-0

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

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