



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **Westco Insoluble Sulfur**
SDS Manufacturer Number: 70

Other means of identification:

Product Description: Vulcanizing Agent
Synonyms: Insoluble Sulfur, high stability, oil treated; Insoluble Sulfur 7520, Insoluble Sulfur 6010

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Used as a vulcanization agent.

Chemical distributor, or other responsible party Name, address, and telephone number:

Distributor Name: Western Reserve Chemical Corporation
Address: 4837 Darrow Road
Stow, OH 44224
USA
General Phone Number: 330 650 2244
General Fax Number: 330 650 2255

Emergency phone number:

Emergency Phone Number: Chemtrec 1 800 424 9300 USA
Website: www.wrchem.com

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word: **WARNING!**

GHS Class: * Skin Irritant, Category 3.
* Eye Irritant, Category 3.
Flammability, Category 1

Hazard Statements: May form combustible dust concentrations in air.
May cause skin, eye, and/or respiratory irritation.

Precautionary Statements: Keep away from heat/sparks/open flames. - 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, and product characteristics at time of disposal.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Eye: May irritate eyes. Mild irritation: Signs/symptoms can include redness, swelling, pain, and tearing.

Skin: Causes mild skin irritation. Causes drying of the skin. May cause a rash and itching of the skin. Mild Skin Irritation (after prolonged or repeated contact): Signs/symptoms can include redness, swelling, and itching.

Inhalation: May irritate mouth, nose, and throat. May irritate the lungs.
Exposure to dust particles generated from this material may cause irritation of the respiratory tract. Irritation (upper respiratory): Signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Ingestion: Swallowing a relatively large amount of this material is unlikely to produce serious illness or death.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Sulphur homopolymer	9035-99-8	80% by weight	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists. DO NOT RUB EYES!
Skin Contact:	Remove contaminated clothing. Wash skin with water, using soap if available. Get medical attention if irritation persists.
Inhalation:	Move into fresh air and keep at rest. Get medical attention if symptoms occur. For breathing difficulties, oxygen may be necessary. Persons who have inhaled vapors or smoke fumes have to be put under medical observation for at least 48 hours, due to the delayed appearance of poisoning.
Ingestion:	Swallowing: If symptoms persist consult doctor. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Seek medical advice.

Indication of immediate medical attention and special treatment needed:

Note to Physicians:	No specific antidote. Treatment based on sound judgement of physician and individual reactions of patient. Treat symptomatically. Persons who have inhaled vapors or smoke fumes have to be put under medical observation for at least 48 hours, due to the delayed appearance of poisoning.
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SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Water fog, carbon dioxide, foam, dry chemical.
Unsuitable extinguishing media:	Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical:

Hazardous Combustion Byproducts:	Combustible. The substance burns with almost invisible flame. Powdered material may form explosive dust-air mixtures. In case of fire, toxic and corrosive gases may be formed. Can cause delayed lung injury. Leaked material and fire-fighting water may pollute water system. Hazardous combustion products : Oxides of Sulfur.
Unusual Fire Hazards:	Toxic emissions may result if product is involved in a fire. Fire produces highly Toxic sulfur dioxide gas.

Special protective equipment and precautions for fire-fighters:

Protective Equipment:	Fire fighters should wear full protective clothing, include self-contained breathing equipment.
Fire Fighting Instructions:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Keep up-wind to avoid fumes. Move container from fire area if it can be done without risk. Use water spray to keep fire-exposed containers cool. Dike and collect extinguishing water. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Keep up-wind to avoid fumes. Move container from fire area if it can be done without risk. Use water spray to keep fire-exposed containers cool. Dike and collect extinguishing water. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
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Environmental precautions:

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Clear up spills immediately and dispose of waste safely. Do not contaminate water sources or sewer.
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Methods and materials for containment and cleaning up:

Spill Cleanup Measures:	Wear dust-tight goggles and gloves. Avoid generating dust. Sweep, shovel or scoop up spilled material. DO NOT VACUUM Procedure for Cleaning/Absorption: Isolate area and remove sources of friction, impact, heat, low level electrical current, and RF energy. Isolate spill and stop leak where safe. Scoop up and remove. DO NOT spread spilled product with water.
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Methods and materials for containment and cleaning up:

Methods for containment:	Prevent from spreading by covering, diking or other means.
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Notes :	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
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SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling: Keep away from heat and open flame. Static ignition hazard can result from handling and use. Avoid breathing dust, if exposed to high dust concentrations, leave area immediately. Use only in a well ventilated area.
Avoid contact with skin and eyes. Good hygienic practices should be observed. Work clothes should be discarded with material. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Reclose containers of unused product.

Hygiene Practices: Do not inhale vapors, fumes or mists of this product. Wash exposed areas thoroughly after handling this product. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities:

Storage: Store closed containers in cool, dry, well-ventilated area. Store away from oxidizing agents, amines and strong bases. Avoid exposure to direct sunlight.

Specific end use(s):

Work Practices: Material is Combustible. Avoid smoking, keep away from open flames and sources of static or electrical sparking. Safety showers and eye wash stations should be available.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures:

Eye/Face Protection: Wear safety glasses or goggles to protect against exposure. Dust proof goggles Recommended if eye contact likely. Wear eye protection appropriate to handling activities.

Skin Protection Description: Normal work coveralls. Launder contaminated clothing before reuse.

Hand Protection Description: Gloves: Use gloves as a standard industrial handling procedure.

Respiratory Protection: Use in a well ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. An approved respirator should be worn when exposure are expected to exceed the applicable limits.

PPE Pictograms:



SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Powder
Color: Yellow
Odor: Slight
Boiling Point: 445 deg C
Melting Point: 108 deg C
Density: 1.58 g/cm³ @ 20 deg C
Solubility: Other Solubility: Slightly soluble in Organic liquids
Flash Point: 157 deg C
Flash Point Method: Cleveland Open Cup (C.O.C).
Auto Ignition Temperature: 232 deg C

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation. Protect from heat. Protect from moisture.

Possibility of hazardous reactions:

Hazardous Polymerization: Will not occur

Conditions To Avoid:

Conditions to Avoid: Keep away from heat, sparks and flame. Avoid and source of ignition. Excessive heat.

Incompatible Materials:

Incompatible Materials: Avoid contact with acidic, basic or oxidizing agents. Do not expose to amines. Contact with copper. Non-protected steel. Avoid contamination of product with small amounts of water.

Hazardous Decomposition Products:

Special Decomposition Products: Fire may produce sulfur dioxide gas.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Toxicity: Oral LD-50: (Rat): > 4,000 mg/kg Not classified.
Dermal LD-50: (Rabbit): > 2,000 mg/kg Not classified

Eye: May Mild Eye Irritation: Signs/symptoms can include redness, swelling, pain, and tearing.

Skin: Frequent or prolonged contact may irritate and dry the skin, leading to discomfort and dermatitis.

Inhalation: May irritate mouth, nose, and throat. May irritate the lungs. Exposure to dust particles generated from this material may cause irritation of the respiratory tract.

Ingestion: May cause irritation of gastrointestinal tract. Swallowing a relatively large amount of its material unlikely to produce serious illness or death.

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: Toxicity Fish: LC50 >1000 mg/l (96 hr)
Toxicity Daphnia: EC50 >1000 mg/l (48 hrs)

Persistence and degradability:

Biodegradation: Expected to be inherently biodegradable.

Bioaccumulative potential:

Bioaccumulation: Will not bio-accumulate.

Mobility in soil:

Mobility In Environmental Media: The product is insoluble in water and will sediment in water systems.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: The generation of waste should be avoided or minimized wherever possible. Dispose of waste and residues in accordance with applicable laws and regulations, and product characteristics at time of disposal. Do not discharge into drains, water courses or onto the ground. Comply with local authority requirements.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied. Recycle empty drums at an appropriate facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal. Ensure drums are tightly sealed.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Non regulated.

DOT Pictograms:



IATA UN Number: Non regulated.

IATA Pictograms:



IMDG Shipping Name : Not Regulated.

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

TSCA Inventory Status: All components of this product are listed in the TSCA inventory of Chemicals Substances.

Section 311/312 Hazard Categories: Fire Hazard

Risk Phrases: R18 - In use, may form flammable/explosive vapour-air mixture. R37 - Irritating to respiratory system. R38 - Irritating to skin.

Safety Phrase: S22 - Do not breathe dust. S24 - Avoid contact with skin. S25 - Avoid contact with eyes. S29 - Do not empty into drains. S36/39 - Wear suitable protective clothing and eye/face protection.



SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 1
HMIS Fire Hazard: 1
HMIS Reactivity: 0
HMIS Personal Protection: X

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	X

Notes :

Important Note: This information relates to the specific product described herein and may not be valid for this material when used in combination with other raw materials. The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.

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