


Retarder V. E/C

| 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION | |
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| Manufacturer Shandong Yanggu Huatai Chemical Co., LTD No.217, Qinghexi Road Yanggu County, Shandong, China 252300 | Emergency Contact Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA) |
| Trade Name(s): Retarder V. E/C | Chemical Name: N-Phenyl-N-[(trichloromethyl)thio]benzenesulfonamide |
| Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available. | Application of the substance/the preparation: Rubber retarder |
| Issued By: Sovereign Chemical Company (Distributor) 4040 Embassy Parkway, Suite 190 Akron, Ohio 44333 | Date of Issue: June 15, 2026 |

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012), Regulation (EC) No 1272/2008, 1907/2006/EC (REACH), and GHS.

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| Hazard Pictograms (CLP) | :  GHS07 |
| Signal Word | : Warning |
| Hazard statements (CLP) | : H317 – May cause an allergic skin reaction, Category 1 |
| Precautionary statements (CLP) | : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 – IF SKIN irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. P501 - Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Other hazards | : Not applicable |

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture

| Chemical Name | CAS No | EC No | Weight % | Classification |
|--|------------|-----------|----------|--|
| N-Phenyl-N-[(trichloromethyl)thio]benzenesulfonamide | 2280-49-1 | 218-915-0 | ≥ 90 | H317 – May cause an allergic skin reaction, Category 1 |
| Calcium carbonate | 471-34-1 | 207-439-9 | ≤ 6 | N/A |
| Mineral oil | 64742-54-7 | 265-157-1 | ≤ 2 | N/A |

4. FIRST AID MEASURES

Description of first aid measures

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| First-aid measures general: | In all cases of doubt, or when symptoms persist, seek medical attention |
| First-aid measures after inhalation: | Move to fresh air. Call a physician if symptoms develop or persist. |
| First-aid measures after skin contact: | Wash off immediately with soap and plenty of water. Take off contaminated clothing and wash before reuse. Get medical attention if symptoms occur. |
| First-aid measures after eye contact: | Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| First-aid measures after ingestion: | Rinse mouth. Get medical attention if symptoms occur. |

Most important symptoms and effects, both acute and delayed

Symptoms effects: May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

General: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing media

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| Suitable extinguishing agents: | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). Apply extinguishing media carefully to avoid creating airborne dust. |
| Unsuitable extinguishing agents: | Do not use water jet as an extinguisher, as this will spread the fire. |

Special hazards arising from the substance or mixture

Hazards: Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed.

Advice for firefighters

General: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

6. ACCIDENTAL RELEASE MEASURES*Personal precautions, protective equipment and emergency procedures*

Non-emergency personnel: Use only non-sparking tools. Keep unnecessary personnel away. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.

Emergency personnel: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated

Environmental precautions

General: Avoid discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up

General: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid dust formation. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.

Reference to other sections

General: See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal

7. HANDLING AND STORAGE*Precautions for safe handling*

General: Keep formation of airborne dusts to a minimum. Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation. Provide appropriate exhaust ventilation at places where dust is formed. Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities

Storage: Store in original tightly closed container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Specific end use(s)

General: No further relevant information available

8. EXPOSURE CONTROLS - PERSONAL PROTECTION*Control Parameters*

Occupational exposure limits: Calcium carbonate (CAS#471-34-1): TWA: 10 mg.m-3 (France)

Additional exposure limits: Not available

DNEL/DMEL and PNEC values: Not available

Exposure controls

Appropriate engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

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

Hand protection: For prolonged or repeated skin contact use suitable protective gloves. Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing. Wear suitable protective clothing. Use of an impervious apron is recommended.

Body protection: Wear appropriate protective clothing and boots.

Respiratory protection: Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Thermal hazard: Wear suitable protective clothing to prevent heat.

Environmental exposure controls: No additional information.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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| Form: Solid powder | Melting Point/Melting Range: 110 °C |
| Color: White to beige | Boiling Point/Boiling Range: Not available |
| Odor: Characteristic | Octanol/Water Partition Coefficient: Not available |
| Odor threshold: Not available | pH Value: Not available |
| Vapor pressure: Not available | Flash point: Not available |

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| Oxidizing properties: Not available | Flammability (solid, gaseous): Not available |
| Relative density: 1.68 g/cm ³ | Ignition temperature: Not available |
| Vapor density: Not applicable | Decomposition temperature: Not determined |
| Evaporation rate: Not available | Auto ignition temperature: Not available |
| Water solubility (g/l): Insoluble | Decomposition temperature: Not available |
| Viscosity Dynamic: Not applicable Kinematic: Not applicable | Explosion limits Lower: Not determined Upper: Not determined |

10. STABILITY AND REACTIVITY

Reactivity

The substance is stable under normal storage and handling conditions.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Incompatible materials. Keep away from heat, sparks and open flame. Minimize dust generation and accumulation.

Incompatible materials

Strong oxidizing agents. Acids. Fluorine. Hydrogen.

Hazardous decomposition products

During fire, gases hazardous to health may be formed.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD50 (Oral, Rat): Not available

LD50 (Dermal, Rabbit): Not available

LC50 (Inhalation, Rat): Not available

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: May cause an allergic skin reaction

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT single exposure: Not classified

STOT repeated exposure: Not classified

Aspiration hazard: Not classified

Information on other hazards

General: No other information available.

12. ECOLOGICAL INFORMATION

Short-term toxicity

| Acute toxicity | | Time | Species | Method | Evaluation | Remarks |
|----------------|------------|------|---------|-----------|------------|---------|
| LC50 | N/A | 96h | Fish | OECD 2023 | N/A | N/A |
| LC50 | > 100 mg/L | 48h | Daphnia | OECD 202 | N/A | N/A |
| EC50 | > 100 mg/L | 96h | Algae | OECD 201 | N/A | N/A |

Persistence and degradability: Not available

Bioaccumulative potential: Not available

Mobility in soil: Not available

Results of PBT and vPvB assessment: Not available

Other adverse effects: Not available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORTATION INFORMATION

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| UN-Number | | |
| DOT, ADR, ADN, IMDG, IATA | | Not regulated |
| UN proper shipping name | | |
| DOT, ADR, ADN, IMDG, IATA | | Not regulated |
| Transport hazard class(es) | | |
| DOT, ADR, ADN, IMDG, IATA | | Not regulated |
| Packing group | | |
| DOT, ADR, ADN, IMDG, IATA | | Not regulated |
| Environmental hazards | | |
| Marine pollutant | | No |
| Special precautions for user | | Not applicable |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | | |
| UN "Model Regulation" | | |
| DOT, ADR, ADN, IMDG, IATA | | Not applicable |

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

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| SARA Section 355 (extremely hazardous substances) | Not listed |
| SARA Section 313 (Specific toxic chemical listings) | Not listed |
| TSCA (Toxic Substances Control Act) | Listed |
| Proposition 65 (California) | |
| Chemicals known to cause cancer | Not listed |
| Chemicals known to cause reproductive toxicity for females | Not listed |
| Chemicals known to cause reproductive toxicity for males | Not listed |
| Chemicals known to cause developmental toxicity | Not listed |
| Carcinogenic Categories | Not listed |
| IARC (International Agency for Research on Cancer) | Not listed |
| TLV (Threshold Limit Value established by ACGIH) | Not listed |
| NIOSH-Ca (National Institute for Occupational Safety and Health) | Not listed |
| OSHA-Ca (Occupational Safety & Health Administration) | Not listed |
| Canada | |
| Canadian Domestic Substances List (DSL) | Listed |
| Canadian Ingredient Disclosure list (limit 0.1%) | Not listed |
| Canadian Ingredient Disclosure list (limit 1%) | Not listed |
| REACH | |
| REACH Candidate List | Not listed |
| REACH XIV List | Not listed |



Safety Data Sheet

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.