



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: Westco ATO Twinkling Star

Other means of identification:

Product Description: Westco ATO is used as a fire retardant in rubber, plastics, wire & cable and other composites.

Synonyms: Antimony Trioxide (ATO); Antimony (III) Oxide, 99%

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Westco ATO is used as a fire retardant in rubber, plastics, wire & cable and other composites. It must be used in conjunction with a halogen source, for example a chlorinated paraffin to be effective.

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: Danger

GHS Class:

- * Acute oral and inhalation toxicity, Category 4.
- * Carcinogenicity, Category 1.
- * Specific Target Organ Toxicity, Repeated Exposure, Category 2.
- * Hazardous to the aquatic environment, Acute, Category 3, Chronic, Category 2.

Hazard Statements:

- * Harmful if swallowed.
- * Harmful if inhaled.
- * May cause cancer.
- * May cause damage to organs through prolonged or repeated exposure.
- * Toxic to aquatic life with long lasting effects.

Precautionary Statements:

- * Do not handle until all safety precautions have been read and understood.
- * Do not breathe dust/fume/gas/mist/vapours/spray.
- * Do not eat, drink or smoke when using this product.
- * Use only outdoors or in a well-ventilated area.
- * Avoid release to the environment.
- * Wear protective gloves/protective clothing/eye protection/face protection.
- * IF SWALLOWED: Rinse mouth. Do not induce vomiting.
- * If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- * If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
- * If skin irritation occurs: Get medical advice/attention.
- * Collect spillage.
- * Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

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

Eye: May cause irritation.

Skin: May cause skin irritation.

Inhalation: Inhalation of the product may be irritating to the respiratory system.

Ingestion: Harmful if swallowed.

Carcinogenicity: May cause cancer.

Potential Environmental Effects: Hazardous to the aquatic environment, acute hazard

Category 3 Hazardous to the aquatic environment, long-term hazard
Category 2

Target Organs:

Specific target organ toxicity - single exposure: Not classified.
Specific target organ toxicity - repeated exposure: May cause damage to organs through prolonged or repeated exposure.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
ANTIMONY TRIOXIDE	1309-64-4	100 %	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact: 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.

Skin Contact: Remove and isolate contaminated clothing and shoes. Wash off with soap and water. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists.

Inhalation: Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician if symptoms develop or persist. Get medical attention, if needed.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not induce vomiting without advice from poison control center. Do not use mouth-to-mouth method if victim ingested the substance.

Notes : Most important symptoms/effects, acute and delayed: Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed : Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information : IF exposed or concerned: Get medical advice/attention. 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.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical:

Hazardous Combustion Byproducts: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire-fighters:

Protective Equipment: Special protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire Fighting Instructions: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use standard firefighting procedures and consider the hazards of other involved materials. For personal protection, see section 8 of the SDS.

Notes : Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.
Specific methods : Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards: No unusual fire or explosion hazards noted.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personnel Precautions: Keep unnecessary personnel away.
Keep people away from and upwind of spill/leak.
Keep out of low areas.
Wear appropriate protective equipment and clothing during clean-up.
Avoid inhalation of dust.
Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Ensure adequate ventilation.
Local authorities should be advised if significant spillages cannot be contained.
For personal protection, see section 8 of the SDS.

Environmental precautions:

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

Methods and materials for containment and cleaning up:

Spill Cleanup Measures: Large Spills: Wet down with water and dike for later disposal. Following product recovery, flush area with water.
Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.
Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Methods and materials for containment and cleaning up:

Methods for containment: Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
The product is immiscible with water and will spread on the water surface.
This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
Stop the flow of material, if this is without risk.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Minimize dust generation and accumulation.
Avoid breathing dust.
Avoid prolonged exposure.
Do not taste or swallow.
When using, do not eat, drink or smoke.
Should be handled in closed systems, if possible.
Use only outdoors or in a well-ventilated area.
Wear appropriate personal protective equipment.
Wash hands thoroughly after handling.
Avoid release to the environment.
Observe good industrial hygiene practices.

Hygiene Practices: ACTIOPHRASE_1256221 * Follow good industrial hygiene practices when handling this material.
* Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling dust, vapor or mist.
* When using, do not eat, drink or smoke.
* Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities:

Storage: Conditions for safe storage, including any incompatibilities: Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Specific end use(s):

Work Practices: * Use this product with adequate ventilation.
* Safety showers and eye wash stations should be available.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Guideline ACGIH: ANTIMONY OXIDE - PEL - 0.5 mg/m³

Guideline OSHA: ANTIMONY OXIDE - PEL - 0.5 mg/m³

Guideline NIOSH: ANTIMONY OXIDE - PEL - 0.5 mg/m³

Appropriate engineering controls:

Engineering Controls: Appropriate 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: Safety goggles and eyewash station in work area.

Skin Protection Description: Apron or coveralls should be used to prevent contact with skin or clothing.

Hand Protection Description: Wear appropriate chemical resistant gloves.

Respiratory Protection: Wear respirator if there is dust formation.

PPE Pictograms:



SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Solid. Form: Powder.
Color:	White
Odor:	Odorless.
Odor Threshold:	Not available.
Boiling Point:	2597 °F (1425 °C)
Melting Point:	Melting point/freezing point:1211 °F (655 °C)
Density:	Relative density:Not available. 5.2 g/cm ³
Vapor Density:	Not available.
Vapor Pressure:	Not available.
Evaporation Rate:	Not available.
pH:	Not available.
Molecular Formula:	Sb ₂ O ₃
Molecular Weight:	291.52 g/mol
Flash Point:	Not available.
Lower Flammable/Explosive Limit:	Flammability limit - lower (%):Not available. Explosive limit - lower (%):Not available.
Upper Flammable/Explosive Limit:	Flammability limit - upper (%):Not available. Explosive limit - upper (%):Not available.
Auto Ignition Temperature:	Not Available
<u>9.2. Other information:</u>	
Notes :	Flammability (solid, gas) :Not available.

SECTION 10 : STABILITY and REACTIVITY

Reactivity:

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.
Possibility of hazardous reactions:Hazardous polymerization does not occur.

Chemical Stability:

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions:

Hazardous Polymerization: Does not occur.

Conditions To Avoid:

Conditions to Avoid: Contact with incompatible materials.

Incompatible Materials:

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products:

Special Decomposition Products: No hazardous decomposition products are known.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Toxicity: Oral toxicity in Rats: LD50: >34.6 g/kg
Dermal toxicity in Rabbits: LD50: >2 g/kg
Harmful if inhaled. Harmful if swallowed.

IARC: IARC Monographs. Overall Evaluation of Carcinogenicity
2B Possibly carcinogenic to humans.

Inhalation: Aspiration hazard: Not available.

Ingestion: Oral LD50
Species:Rat
Test Results:> 34600 mg/kg
> 20000 mg/kg
> 20 g/kg

Sensitization: Respiratory or skin sensitization
Respiratory sensitization :Not available.
Skin sensitization:This product is not expected to cause skin sensitization.

Chronic Effects: Chronic effects :Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.
May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity: IARC: Group 2B: Possibly carcinogenic to humans.

Mutagenicity: Germ cell mutagenicity:No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: Aquatic:Crustacea
Species :EC50 Water flea (Daphnia magna)
Test Results:361.5 - 496 mg/l, 48 hours

Aquatic Fish
Species:LC50 Fathead minnow (Pimephales promelas)
Test Results:> 80 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability:

Biodegradation: Persistence and degradability :No data is available on the degradability of this product.

Bioaccumulative potential:

Bioaccumulation: Bioaccumulative potential: No data available.

Mobility in soil:

Mobility In Environmental Media: Mobility in soil :No data available.

Other adverse effects:

Effect of Material On Aquatic Life: Toxic to aquatic life with long lasting effects.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Disposal instructions :Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations:Dispose in accordance with all applicable regulations.
Waste from residues / unused products:Dispose of in accordance with local regulations.
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated Packaging: 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.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Not regulated in containers less than 1000 LBS. Environmentally hazardous substances, solid, n.o.s. (ANTIMONY OXIDE RQ = 1000 LBS), MARINE POLLUTANT

DOT Pictograms:



IATA Shipping Name: Environmentally hazardous substance, solid, n.o.s. (ANTIMONY OXIDE)

IATA UN Number: UN3077

IATA Packing Group: 9

IATA Pictograms:



IMDG UN Number : UN3077

IMDG Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ANTIMONY OXIDE), MARINE POLLUTANT

IMDG Hazard Class : 9

IMDG Packing Group : III

Notes : DOT; IATA; IMDG
Marine pollutant
General information:DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

US Federal: This product is a Hazardous Chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Inventory Status: All components are on the U.S. EPA TSCA Inventory List.

SARA: Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 EHS: Not listed

Section 304 RQ: Non regulated.

CERCLA Section 302: Listed

Clean Air Act: Non regulated.

Clean Water Act RQ: Hazardous substance

California PROP 65: WARNING: This product contains a chemical known to the State of California to cause cancer.

Risk Phrases:

- * R20 - Harmful by inhalation.
- * R23 - Toxic by inhalation.
- * R45 - May cause cancer.
- * R53 - May cause long-term adverse effects in the aquatic environment.

Safety Phrase:

- * S 1 - Keep locked up.
- * S 7/9 - Keep container tightly closed and in a well-ventilated place.
- * S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
- * S29/35 - Do not empty into drains; dispose of this material and its container in a safe way.



SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 2

HMIS Fire Hazard: 0

HMIS Reactivity: 0

HMIS Personal Protection: J

Health Hazard	2
Fire Hazard	0
Reactivity	0
Personal Protection	J

SDS Revision Date: August 03, 2015

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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