



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: Westco AO-1010

Other means of identification:

Product Description: Antioxidant used as stabilizer in polymers with high processing temperatures.

Synonyms: Tetrakis [methylene-3-(3',5'-di-tert-butyl-4'-hydroxyphenyl)propionate] methane, Pentaerythrityl Tetrakis[β-(3,5-di-tert-butyl, 4-hydroxyphenyl)-propionate], Antioxidant 1010

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: A versatile antioxidant giving excellent processing stability and long term heat aging characteristics. It is used in a variety of polymers where elevated processing temperatures are encountered.

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):

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

Emergency Overview: May be irritating to eyes, respiratory system and skin.
Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Tetrakis [methylene-3(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] methane

Eye: Not expected to be a hazard in normal industrial use. As with any dust, an irritation may be possible to the eye.
Skin: Not expected to be a hazard in normal industrial use. As with any dust, an irritation may be possible to the skin.
Inhalation: As with any dust, an irritation may be possible to mucous membranes and the respiratory tract.
Ingestion: Not expected to be a hazard in normal industrial use.
Chronic Health Effects: None known.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Tetrakis [methylene-3(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] methane	6683-19-8	Content: > = 98 %	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin Contact:	Wash skin with plenty of soap and water. Get medical attention if irritation.
Inhalation:	Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Ingestion:	If conscious, drink plenty of water. In case of vomiting, be sure that vomit can freely drain. If unconscious, do not drink anything. Get medical attention if required.

Indication of immediate medical attention and special treatment needed:

Note to Physicians:	Avoid inhaling dust or irritating eye and skin.
Notes :	In case of doubt, seek medical advice.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Water spray, carbon dioxide, dry chemical or chemical foam.d
Unusual Fire Hazards:	Irritating or toxic gases may be generated from decomposition/combustion products. Under low oxygen conditions, carbon, monoxide may be produced. No known fire or explosion hazards are associated with this material.

Special protective equipment and precautions for fire-fighters:

Protective Equipment:	As in any fire, wear an approved respiratory protective device and full protective gear.
Fire Fighting Instructions:	Clear area of all non emergency personnel. Do not enter confined fire space without full bunker gear including a positive pressure self contained breathing apparatus. Isolate fuel supply from fire.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personnel Precautions:	General Information: Use proper personal protective equipment as indicated in Section 8. Remove all sources of ignition.
-------------------------------	--

Environmental precautions:

Environmental Precautions:	Do not flush into sanitary sewer or bury into ground to avoid impact on environment.
Methods for cleanup:	Vacuum or sweep up material and place into a suitable disposal container. Avoid dust formation. Thoroughly flush residue with water.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling:	Handle with care. Avoid breathing dust. Avoid contact with skin and eyes. Avoid dust formation and ignition sources.
Hygiene Practices:	Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities:

Storage:	Store in a cool, dry place. Store in a tightly closed container. Keep away from food and drink.
-----------------	---

Specific end use(s):

Work Practices:	Safety showers and eye wash stations should be available.
Notes :	Danger: There is a risk of explosion if an air-dust mixture forms. Do not smoke or weld at the workplace. Use grounding bands to minimize static.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep air fresh.
------------------------------	--

Individual protection measures:

Eye/Face Protection:	Wear suitable goggles, or face protection.
Skin Protection Description:	Wear appropriate protective clothing if contact with skin is expected

Hand Protection Description: Wear appropriate protective gloves.

Respiratory Protection: Effective dust mask.

PPE Pictograms:



SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Solid

Physical State Appearance: Powder

Color: White or light yellow

Odor: Odorless

Melting Point: 110 - 125 deg C

Density: 1.15 g/cm³

Vapor Pressure: 1.3x10⁻¹⁰ Pa

pH: 5.89 for a 1% suspension in water

Flash Point: 297 deg C

Flash Point Method: DIN 51584

Lower Flammable/Explosive Limit: Not Available

Upper Flammable/Explosive Limit: Not Available

Auto Ignition Temperature: 410 deg C BAM

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable.

Conditions To Avoid:

Conditions to Avoid: Static discharges.

Incompatible Materials:

Incompatible Materials: Materials to Avoid: Strong oxidizing agents, acids, and bases.

Hazardous Decomposition Products:

Special Decomposition Products: Oxides of carbon, toxic gases.
Carbon monoxide, carbon dioxide, toxic gases.
Decomposition Temperature: > 350 deg C

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Tetrakis [methylene-3(3,5-di-tert-butyl-4-hydroxyphenyl)proprionate] methane :

Skin: Acute toxicity:
Dermal: Not irritant (Rabbit)

Ingestion: Acute toxicity:
Oral: LD50 > 2000 mg/kg (Rat)

Sensitization: Skin: Not sensitising (Guinea pig)

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: Acute toxicity:
To fish: LC50 > 100 mg/l (Zebra fish, 96 hours)
To daphnia: EC50 > 100 mg/l (Daphnia magna, 24 hours)
To bacteria: IC50 > 100 mg/l (Sewage sludge, 3 hours)
To algae: EC50 > 30 mg/l (Scenedesmus sp., 72 hours)

Ecotoxic effects: Not discharge into environment.

Persistence and degradability:

Biodegradation: Biodegradability: Not biodegradable

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: DISPOSAL CONSIDERATIONS:
Residuals should be disposed by incineration or other modes of disposal in consistent with federal, state, and local regulations.
Contaminated packaging material should be treated same as the residuals.
Non-contaminated may be re-used or re-cycled.

SECTION 14 : TRANSPORT INFORMATION

DOT Hazard Class: Not regulated

DOT Pictograms:



IATA Hazard Class: Not regulated

IATA Pictograms:



IMDG Hazard Class : Not regulated

ICAO Hazard Class : 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.

SARA: This product does not contain any material regulated under Title III, Section 313

CERCLA Section 302: Not regulated

Safety Phrase: S36/39 - Wear suitable protective clothing and eye/face protection.

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

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

Health Hazard	1
Fire Hazard	0
Reactivity	0
Personal Protection	J

SDS Revision Date: June 24, 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

Copyright© 1996-2015 Actio Corporation. All Rights Reserved.