



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: Westco AO-WL

Other means of identification:

Product Description: Antioxidant
Synonyms: Butylated reaction product of p-cresol and dicyclopentadiene; Wingstay L; Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene.

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Westco AO-WL is a phenolic antioxidant/stabilizer used in the manufacture of rubber goods.

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):

Signal Word: WARNING!
Hazard Statements: MAY FORM COMBUSTIBLE DUST-AIR MIXTURES.
Keep away from heat, sparks and flame.
Prevent dust accumulation. Keep container closed.
Use only with adequate ventilation.
Wash thoroughly after handling

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

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.
Eye: May cause itching and redness. Not expected to be a hazard in normal use.
Skin: May cause itching and redness. Not expected to be a hazard in normal use.
Inhalation: Not expected to be a hazard in normal use.
Ingestion: Not expected to be a hazard in normal use.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	68610-51-5	≥99 by weight	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact: Flush eyes with large amounts of water for 15 minutes with eyelids open. If irritation persists seek medical attention.

Skin Contact: Immediately wash with water and soap and rinse thoroughly. If redness or irritation occurs seek medical attention.

Inhalation: Supply fresh air; consult doctor in case of complaints.

Ingestion: If symptoms persist consult doctor.

Indication of immediate medical attention and special treatment needed:

Note to Physicians: Treat symptomatically.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: CO2, extinguishing powder or water spray. Fight larger fires with water spray.
Water haze
Foam

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Special protective equipment and precautions for fire-fighters:

Protective Equipment: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Fire Fighting Instructions: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

NFPA Ratings:

NFPA Health: 1
NFPA Flammability: 1
NFPA Reactivity: 0



Notes : Additional information:
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personnel Precautions: Wear personal protective equipment(PPE) when cleaning up spilled material. Avoid formation of dust.

Environmental precautions:

Environmental Precautions: Do not allow to enter sewers/ surface or ground water.

Methods and materials for containment and cleaning up:

Methods for containment: Pick up mechanically.
Send for recovery or disposal in suitable receptacles. Avoid dust formation.

Methods for cleanup: Pick up mechanically.
Send for recovery or disposal in suitable receptacles.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling: Prevent formation of dust.
Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:
Dust can combine with air to form an explosive mixture.
Protect against electrostatic charges. Use explosion-proof apparatus I fittings and spark-proof tools.
All transfer and storage equipment should be metallized and earthed.

Hygiene Practices: Follow good industrial hygiene practices when handling this material.

Conditions for safe storage, including any incompatibilities:

Storage: Store in dry conditions.
Store receptacle in a well ventilated area.
Protect from heat and direct sunlight.

Specific end use(s):

Work Practices: Safety showers and eye wash stations should be available.

Specific end use(s)

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls: Provide local exhaust and/or general ventilation to maintain exposure below regulatory and recommended limits.

Individual protection measures:

Eye/Face Protection: Safety glasses

Skin Protection Description: Protective clothing if skin contact is expected.

Hand Protection Description: Chemical resistant rubber gloves

Respiratory Protection: Breathing equipment: Suitable respiratory protective device recommended.

PPE Pictograms:



Notes :

Additional information about design of technical systems: See item 7.
Components with limit values that require monitoring at the workplace: Not required.
Additional information: The lists that were valid during the creation were used as basis.

General protective and hygienic measures:
Wash hands before breaks and at the end of work.
Immediately remove all soiled and contaminated clothing.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Appearance:
Form: Powder

Color: Whitish

Odor: uncharacteristic

Boiling Point: Undetermined.

Melting Point: 118°C (244 °F)

Density: Not determined.
Bulk density at 20°C (68 °F): 320 kg/m³
Relative density at 20°C (68 °F) 1.0736

Solubility: Miscibility with Water at 25°C (77 °F): <0.01 mg/l

Flash Point: > 280°C (> 536 °F)

Lower Flammable/Explosive Limit: <60 g/m³ (Cloud)

Upper Flammable/Explosive Limit: >1500 g/m³ (Cloud)

Auto Ignition Temperature: 445 °C (deposit)

9.2. Other information:

Notes :

Danger of explosion: Product does not present an explosion hazard.
Danger of explosion (Cloud): ST3
EMI (Cloud): <10 mJ
KST (Cloud): 349 bar.m.s-1
P,max (Cloud): 9 bar
LOC (Cloud): 8 %v/v O₂/N₂
aromatic hydrocarbons: Fully miscible.
Log Kow (n-octanol/water): 7.56 (30°C)
Other information: No further relevant information available

SECTION 10 : STABILITY and REACTIVITY

Possibility of hazardous reactions:

Hazardous Polymerization: Possibility of hazardous reactions: No dangerous reactions known.

Conditions To Avoid:

Conditions to Avoid: No further relevant information available.

Incompatible Materials:

Incompatible Materials: None

Hazardous Decomposition Products:

Special Decomposition Products: Carbon monoxide and carbon dioxide
Phenolic type compounds.

Notes :

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

IARC:	Substance is not listed.
NTP:	Substance is not listed
Skin:	Dermal LD50 >2000 mg/kg (rat) (OECD Guideline 402)
Ingestion:	Oral LD50 >5000 mg/kg (rat) (OECD Guideline 401)
Sensitization:	This substance was determined to be non-sensitizing by skin contact in the Guinea Pig test (OECD 406).
Chronic Effects:	Subacute to chronic toxicity: In a 90-day dietary study in rats, Wingstay L produced minor blood effects and organ weight increases. NOAEL was 1500 ppm, NOEL was 500 ppm. Rats fed Wingstay L for up to 28 days and averaging 866 mg (approximately 10,000 ppm) or greater in feed, demonstrated severe systemic toxicity. Rats died when fed extremely high dose levels of Wingstay L (25,000 and 50,000 ppm in feed).
Mutagenicity:	Chromosomal Aberration Assay in Chinese Hamster Ovary (CHO) cells: negative. E.coli Pol A1- assay for DNA damage: negative. The substance was considered negative for inducing forward mutations at the HGPRT locus in CHO cells under both non-activation and activation conditions. In the Salmonella typhimurium/Escheria coli Plate Incorporation/Preincubation Mutation Assay, under both nonactivation and activation conditions, this substance was negative for inducing reverse mutations.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: Remark: No toxicity demonstrated at limit of solubility.

Persistence and degradability:

Biodegradation: No further relevant information available

Bioaccumulative potential:

Bioaccumulation: No further relevant information available.

Mobility in soil:

Mobility In Environmental Media: Mobility in soil : No further relevant information available.

Other adverse effects:

Effect of Material On Aquatic Life: EC50 (48 h) >0.2 mg/1 (daphnia) (OECD Guideline 202)
EC50 (96 h) >0.2 mg/1 (fish) (OECD Guideline 203)

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Must be specially treated adhering to official regulations.
Based upon most recent TCLP data and process knowledge, this product , as sold, would not be hazardous waste (if disposed) per 40CFR 261.24.

Contaminated Packaging: Disposal must be made according to official regulations.

SECTION 14 : TRANSPORT INFORMATION

DOT Hazard Class: Not regulated

DOT Pictograms:



IATA Hazard Class: Not regulated

IATA Pictograms:



IMDG Hazard Class : Not regulated

ADR Hazard Class: Not regulated

RID Hazard Class : Not regulated

Notes :

ADN
UN-Number:Void
UN proper shipping name : Void Class:Void

Environmental hazards:NA
Special precautions for user:Not applicable
Transport in bulk according to Annex II of MARPOL73178 and the IBC Code:Not applicable
UN "Model Regulation":NA

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene :

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, Sections 311/312/313
CERCLA Section 302: Section 103: Not regulated

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

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

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	F

SDS Revision Date: July 01, 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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