



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **Westco B-25**

Other means of identification:

Product Description: Acetone-diphenylamine condensation product - complex product,
Diphenyleneamine/Acetone Reaction Product; Acetone-diphenylamine condensation product - Complex product

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Westco B-25, a diphenylamine-acetone reaction product, is an antioxidant for natural and synthetic rubbers. It is recommended for rubber compounds where resistance to heat aging and flex cracking is important, and where staining and discoloration are not objectionable.

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: * Acute oral, dermal, and inhalation toxicity, Category 4.
* Hazardous to the aquatic environment.

Hazard Statements: * Toxic if swallowed.
* Toxic in contact with skin.
* Toxic if inhaled.
* Very toxic to aquatic life with long lasting effects.
Danger of cumulative effects

Precautionary Statements: * Do not breathe dust/fume/gas/mist/vapours/spray.
* Wash hands thoroughly after handling.
* Do not eat, drink or smoke when using this product.
* Use personal protective equipment as required.
* IF ON SKIN: Wash with plenty of soap and water.
* IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
* IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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

Emergency Overview: * WARNING!
* Avoid contact with the skin and the eyes.
* Exposure to dust may be irritating to eyes, nose, and throat.
* Harmful if inhaled or swallowed.

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

Eye: * May cause irritation.
* Overexposure may cause eye watering or discomfort, redness and swelling.

Skin: * May be absorbed through the skin in harmful amounts.
* May cause irritation.

Inhalation: * Inhalation of dust & fumes may be harmful and irritating to respiratory system.

Ingestion: * Harmful if swallowed. Ingestion can cause nausea, vomiting, diarrhea and gastrointestinal irritation.
* Toxic if swallowed.

Carcinogenicity: Carcinogenic effects : Classified A4 by ACGIH (DPA)

Potential Environmental Effects: Very toxic to aquatic organisms with long lasting effects.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
ADPA	68412-48-6	> 65% by weight	
Diphenylamine	122-39-4	< 30% by weight	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Irrigate immediately with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention if irritation persists.
Skin Contact:	Remove contaminated clothing. Wash skin liberally with soap and water. If symptoms (irritation or blistering) occur obtain medical attention.
Inhalation:	Remove patient from exposure. Obtain medical attention if ill effects occur.
Ingestion:	Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention.
Notes :	Further Medical Treatment: Symptomatic treatment and supportive therapy as indicated.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Water spray, foam, dry powder or CO2.

Specific hazards arising from the chemical:

Hazardous Combustion Byproducts: Products of combustion: Thermal decomposition will evolve very toxic, irritant and extremely flammable vapours.
Combustion products: Nitrogen oxides (NO, NO2), carbon oxides (CO, CO2), aromatic and aliphatic hydrocarbons.

Special protective equipment and precautions for fire-fighters:

Protective Equipment: Fire Fighting Protective Equipment: A self contained breathing apparatus and suitable full body covering protective clothing should be worn in fire conditions.
Fire Fighting Instructions: Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personnel Precautions: Wear suitable protective equipment.

Environmental precautions:

Environmental Precautions: May be harmful to aquatic life. Do not allow to enter drains, sewers, watercourses or soil. Observe government regulations.

Methods and materials for containment and cleaning up:

Spill Cleanup Measures: *Small spills: Absorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery.
*Large spills: Absorb spillages onto sand, earth or any suitable adsorbent material. Prevent entry into sewers, dike if needed. Pump materials into suitable containers.

Methods and materials for containment and cleaning up:

Methods for containment: Contain spills with an inert adsorbent material such as soil, sand or oil dry.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling: Wear PPE as described in Section 8.

Hygiene Practices: * Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.
* Follow good industrial hygiene practices when handling this material.

Conditions for safe storage, including any incompatibilities:

Storage: Suitable containers: Mild steel drums.
Keep away from oxidising agents, acids, alkalis, moisture, heat and direct sunlight. Always store in a cool, well ventilated place.

Storage Temperature: Ambient.
Storage Life: 1-3 years depending upon storage conditions.

Specific end use(s):

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

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Diphenylamine:

Guideline ACGIH: TWA : 10 (mg/m³) from ACGIH (TLV)
Consult local authorities for acceptable exposure limits.

Guideline OSHA: TWA : 10 (mg/m³) from OSHA (PEL)
Consult local authorities for acceptable exposure limits.

Appropriate engineering controls:

Engineering Controls: Exhaust ventilation/engineering controls necessary to keep the airborne concentration of vapours below their respective TLV.
Wear suitable gloves and eye/face protection.
Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit.
Ensure that eyewash stations and safety showers are proximal to the working station.

Individual protection measures:

Eye/Face Protection: Chemical goggles Eyewash station in work area

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

Hand Protection Description: Chemical resistant rubber gloves

Respiratory Protection: Use of any respirator will be compliant to OSHA's Respiratory Protection Standard, 29CFR1910.134.

PPE Pictograms:



SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance: Viscous liquid (staining)

Color: Dark Brown

Odor: Characteristic aromatic amines

Boiling Point: 170 deg C

Melting Point: (Deg C): Not applicable

Specific Gravity: 1.09 - 1.11

Solubility: Solubility (Other): Soluble in acetone, toluene.

Vapor Pressure: (Ps): No data.

pH: (Value): No data.

Coefficient of Water/Oil Distribution: No data.

Flash Point: 110 deg C (230 deg F)

Flash Point Method: (Closed Cup)

Auto Ignition Temperature: (Deg C): No data.

Explosive Properties: No data.

Oxidizing Properties: No data.

9.2. Other information:

Notes : Flammable Limits: No data.

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: The product is stable at normal temperature and pressure.

Conditions To Avoid:

Conditions to Avoid: Oxidizing agents. Strong acids and alkalis.

Incompatible Materials:

Incompatible Materials: Strong mineral acids and oxidising agents.

Hazardous Decomposition Products:

Special Decomposition Products: Irritating fumes consisting of oxides of nitrogen/oxides of carbon, etc.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Toxicity: Acute oral toxicity (LD50): 2300 mg/kg (rat)

ACGIH: Classified A4 by ACGIH (DPA)

Eye: May cause irritation.

Skin: May cause mild skin irritation.

Inhalation: May cause irritation.

Ingestion: May be a slight ingestion hazard based on animal testing.

Mutagenicity: Not available.

Notes : Effects of over exposure: May cause irritation to mucous membranes and respiratory passages. Overexposure to vapours on heating may cause skin irritation and respiratory tract irritation and flu-like symptoms. Diphenylamine is reported teratogenic in rats.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: Acute Fish Toxicity:
LC50 (Orange Red Killifish) (48 hour) 5.1 mg/l
EC50 (Daphnia Magna) (24 hour) 2.3 mg/l

Acute Algae Toxicity: EC50 Algae (72 hr) 0.18 mg/l

Persistence and degradability:

Biodegradation: Not-biodegradable.
However long term degradation products may arise.

Other adverse effects:

Effect of Material On Aquatic Life: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Notes : Not Classified as Dangerous for Supply/Use.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Avoid release to sewers and watercourses. Incinerate waste in accordance with local, state or national legislation.

Do not use empty container.
Decontaminate/recondition empty drums or dispose of empty container in accordance with local government regulations.
Label precautions also apply to the container when empty.

Contaminated Packaging: Please ensure that packaging, including drums, are disposed of in a responsible manner and in accordance with federal, and your state's, solid/hazardous waste regulations. Due to more restrictive waste disposal regulations, NEVER wastetreat or dispose of material until you check your appropriate local, state, & federal regulations for requirements.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Not regulated by ground or rail if shipped or transported in containers less than 450 litres.

DOT Pictograms:



IATA Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IATA UN Number: 3082

IATA Hazard Class: 9

IATA Packing Group: III

IATA Pictograms:



IMDG UN Number : UN 3082
 IMDG Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 IMDG Hazard Class : 9
 IMDG Packing Group : III
 ADR UN Number: 3082
 ADR Shipping Name : Environmentally Hazardous Substance, Liquid, N.O.S.,
 ADR Hazard Class: 9
 ADR Packing Group : III
 RID UN Number : 3082
 RID Shipping Name : Environmentally Hazardous Substance, Liquid, N.O.S.,
 RID Hazard Class : 9
 RID Packing Group : III
 Notes : IATA, IMDG, ADR/RID: Marine Pollutant

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.
EINECS Inventory Status: Listed on the inventory.
SARA: Title III: Section 313 Diphenylamine <25% Section 302: None. Sections 311/312 None.
California PROP 65: Not regulated
Risk Phrases:

- * R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
- * R33 - Danger of cumulative effects.
- * R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase:

- * S24 - Avoid contact with skin.
- * S36 - Wear suitable protective clothing.
- * S60 - This material and its container must be disposed of as hazardous waste.
- * S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.



SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 2
HMIS Fire Hazard: 1
HMIS Reactivity: 0
HMIS Personal Protection: J

Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	J

SDS Revision Date: July 09, 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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