SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **Westco CT-AM**

Other means of identification:

Product Description: Westco CT-AM is an antioxidant for CR, NBR, NR, SBR and their latices.

Synonyms: N-phenylbenzeneamine, 2-propanone reaction product; Di-phenylamine-acetone condensation product

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Westco CT-AM is an antioxidant for CR, NBR, NR, SBR and their latices. It is non-blooming and provides excellent protection against heat aging and flex fatigue. Used at 1 to 2 phr, it provides optimum aging resistance.

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:
*Skin Irritant, Category 3.
*Eye irritant, Category 2 .
*Acute Toxicity Oral, Category 4.*Acute Toxicity Dermal, Category 3.
*Respiratory tract irritant,.
*Hazardous to the aquatic environment Acute Category 1, Chronic Category 1

Hazard Statements:
* May be harmful if swallowed and enters airways.
* May be harmful in contact with skin.
* Causes eye irritation.
* Causes skin irritation.
* May cause respiratory irritation.
* Very toxic to aquatic life with long lasting effects.

Precautionary Statements:
*Avoid contact with eyes, skin and clothing.
*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:

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

Eye: May cause watering, redness and stinging sensation.

Skin: May cause itching and redness. Prolonged or repeated skin contact may cause burns

Inhalation: Irritation of the nasal passage and upper respiratory area.

Ingestion: Mildly toxic if ingested. May cause alcohol intolerance (antabuse effect).

Carcinogenicity: This material is not considered a carcinogen.

Potential Environmental Effects: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
diphenylamine-acetone reaction product	68412-48-6	50-55 %	
amorphous silica	7631-86-9	25% by weight	
diphenylamine	122-39-4	<20% by weight	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Most important symptoms/effects, acute and delayed:

Other First Aid: Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Indication of immediate medical attention and special treatment needed:

Note to Physicians: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Use dry chemical powder.

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

Unusual Fire Hazards: Emits toxic fumes when burn:carbon monoxide (CO), nitrous gases (NOx).

Special protective equipment and precautions for fire-fighters:

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

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.

Notes : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personnel Precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions:

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up:

Methods for containment: Sweep up or shovel. Pick up and arrange disposal without creating dust.

Methods for cleanup: Shovel or sweep up for re-use or disposal. Avoid creating dusty conditions. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling:	*Put on appropriate personal protective equipment (see Section 8). *Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. * Workers should wash hands and face before eating, drinking and smoking. * Remove contaminated clothing and protective equipment before entering eating areas. * Do not ingest. * Avoid contact with eyes, skin and clothing. *Avoid breathing dust. Fine dust clouds may form explosive mixtures with air. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. *Use only with adequate ventilation. * Wear appropriate respirator when ventilation is inadequate. * Do not enter storage areas and confined spaces unless adequately ventilated. *Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. *Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. * Use non-sparking tools. * Take precautionary measures against electrostatic discharges. *To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. *Empty containers retain product residue and can be hazardous. Do not reuse container.
Hygiene Practices:	When using, do not eat, drink or smoke. Avoid inhaling vapors, mists, or fumes. Follow good industrial hygiene practices when handling this material. Wash thoroughly after handling. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Conditions for safe storage, including any incompatibilities:

Storage:	*Store in accordance with local regulations. *Store in a segregated and approved area. *Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. * Eliminate all ignition sources. *Separate from oxidizing materials. *Keep container tightly closed and sealed until ready for use. *Containers that have been opened must be carefully resealed and kept upright to prevent leakage. * Do not store in unlabeled containers. * Use appropriate containment to avoid environmental contamination.

Specific end use(s):

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

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls:	Engineering measures : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures:

Eye/Face Protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin Protection Description:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Coveralls or Apron
Hand Protection Description:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: Protective gloves should be worn under normal conditions of use.
Respiratory Protection:	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: Dust respirator.
PPE Pictograms:	
Notes :	Environmental exposure controls Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Solid. [Powder.]
Color:	Brown. [Dark]
Density:	1.33 g/cm³ Relative density : 1.33

Specific Gravity:	72F (22.2C): 1.16 (H2O = 1)
Solubility:	Insoluble in the following materials: cold water. Solubility in other solvents: Medium: Acetone
Flash Point:	78°C (172.4°F) [Setaflash.]
Flash Point Method:	Closed cup

SECTION 10 : STABILITY and REACTIVITY

Reactivity:

Reactivity: Possibility of hazardous reactions :
Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions of reactivity : As with any dry material, pouring or allowing to free-fall or to be conveyed through chutes or pipes can accumulate and generate electrostatic sparks, potentially causing ignition of the material itself, or of any flammable materials which may come in contact with the material or its container.

Chemical Stability:

Chemical Stability: The product is stable.

Possibility of hazardous reactions:

Hazardous Polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions To Avoid:

Conditions to Avoid: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.

Incompatible Materials:

Incompatible Materials: Materials to avoid: Reactive or incompatible with the following materials:
oxidizing materials

Incompatibility with various substances
Reactive or incompatible with the following materials: oxidizing materials.

Hazardous Decomposition Products:

Special Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Toxicity:	Oral Toxicity in Rats: LD50: 1165 mg/kg Dermal Toxicity in Rabbits LD50: >5000 mg/kg
Eye:	Species: rabbit Result: No eye irritation
Skin:	Species: rabbit Result: No skin irritation
Inhalation:	No data available
Sensitization:	No data available
Carcinogenicity:	ACGIH – A4 Not classifiable as a human carcinogen IARC – 3, Not classifiable as to its carcinogenicity to humans
Mutagenicity:	Not available.

SECTION 12 : ECOLOGICAL INFORMATION

diphenylamine-acetone reaction product :

Ecotoxicity:

Ecotoxicity: Toxicity to fish: DPA: LC50: 3.79 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)
flow-through test
LC50: > 20 mg/l
Exposure time: 48 h
Species: Leuciscus idus (Golden orfe)
LC50: 5.1 mg/l>br> Exposure time: 48 h
Species: Oryzias latipes (Orange-red killifish)

Toxicity to daphnia and other aquatic invertebrates: DPA:
EC50: 2.3 mg/l
Exposure time: 24 h
Species: Daphnia magna (Water flea)
Toxicity to algae: DPA:
EC50: 0.18 mg
Exposure time: 72 h
Species: Algae

Environmental Fate: Avoid release to the environment.

Persistence and degradability:

Biodegradation: No Data

Bioaccumulative potential:

Bioaccumulation:	No Data

Other adverse effects:

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

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal:	Disposal should be in accordance with applicable regional, national and local laws and regulations.
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:	Environmentally hazardous substance, solid, n.o.s.(diphenylamine)
DOT UN Number:	3077
DOT Hazard Class:	9
DOT Packing Group:	III
DOT Pictograms:	
IATA Shipping Name:	Environmentally hazardous substance, solid, n.o.s (diphenylamine)
IATA UN Number:	3077
IATA Packing Group:	9
IATA Pictograms:	
Canadian Shipping Name:	NA
Canadian UN Number:	Not regulated.
Canadian Hazard Class:	NA
IMDG UN NUmber :	3077
IMDG Shipping Name :	Environmentally hazardous substance, solid, n.o.s (diphenylamine)
IMDG Hazard Class :	9
IMDG Packing Group :	III
ADR UN Number:	3077
ADR Shipping Name :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (diphenylamine)
ADR Hazard Class:	9
ADR Packing Group :	III
RID UN Number :	3077
RID Shipping Name :	Environmentally hazardous substance, solid, n.o.s (diphenylamine)
RID Hazard Class :	9
RID Packing Group :	III
Notes :	PG* : Packing group

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 Chemical Substances.
Section 302 EHS:	Extremely hazardous substance – Not found
Section 304 RQ:	Extremely hazardous substance – Not found
Section 311/312 Hazard Categories:	Immediate health hazard
Section 313:	Under Section 313 this product is classified as an Acute/Chronic health hazard material. Diphenylamine <20%
State Regulations:	States – CT,FL,IL,LA,MA,MI,MN,PA,NJ,NY – Product Listed
California PROP 65:	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
Risk Phrases:	* R20/22 - Harmful by inhalation and if swallowed.

* R36/37/38 - Irritating to eyes, respiratory system and skin.
* R52 - Harmful to aquatic organisms.

Safety Phrase:

* S 7 - Keep container tightly closed.
* S 9 - Keep container in a well-ventilated place.
* S24/25 - Avoid contact with skin and eyes.
* S14 - Keep away from heat, sparks, and flame..



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 27, 2015

MSDS Revision 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.