



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **Westco TiO2 60R**
SDS Manufacturer Number: 25

Other means of identification:

Product Description: Mixture of 60% titanium dioxide and 40% polymer and dispersing agent
Synonyms: Titanium Dioxide, TiO2 dispersion, Titanium dioxide and 40% polymer bound dispersion

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: TiO2-60 is used for white colorant in rubber and latex formulation which has high hiding power. The vulcanizate is resistant to acid and alkali, stable to sunshine and non-staining. It has reinforcement effect on silicon rubbers and as an inert filler in other rubber products

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 Class: Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).
Hazard Statements: Not applicable.
Precautionary Statements: Not applicable.

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

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects: Dusts and particles from this product may cause irritation. Ingestion may cause irritation of mouth and digestive tract as well as vomiting, fever, abdominal pain, and loss of appetite.
Carcinogenicity: Not a known carcinogen.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Titanium dioxide	1317-80-2	60 by weight	
Ethylene-vinyl Acetate copolymer	2493-78-8	39.5 by weight	
Dusting Agent (talc)	14807-96-6	0.5 by weight	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Rinse immediately with plenty of water. If irritation persists, seek medical attention.
Skin Contact:	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	No adverse health effects anticipated by this route, however, in the event of ingestion, increase intake of liquid in order to flush from the body. In case of persistent symptoms, consult a doctor. If victim is unconscious, never give anything by mouth.
Notes :	Generally not hazardous in normal handling however, good laboratory practices should always be used. Avoid long-term exposure to skin or inhalation dust.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: water

Specific hazards arising from the chemical:

Hazardous Combustion Byproducts: Heating and burning will create toxic gases or fumes. Dust mixtures in the air may create combustion

Special protective equipment and precautions for fire-fighters:

Protective Equipment: Protection of fire-fighters: Usual protective equipment for fire fighters including self-contained breathing apparatus meeting NIOSH standards.

Fire Fighting Instructions: Clear all non -emergency personnel. Do not enter confined fire space without full bunker gear including positive pressure self-contained breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions: Avoid generation of dust. Ensure adequate ventilation. Wear personal protective equipment.

Environmental precautions:

Environmental Precautions: Prevent run-off from entering ground, storm sewers and ditches which lead to natural waterways.

Methods and materials for containment and cleaning up:

Spill Cleanup Measures: Use any feasible mechanical means (e.g. vacuum, sweeping) but avoid dusting during clean-up.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling: Avoid raising dust. Handling systems and areas should be operated in such a way as to minimize exposure to dust. Manual handling guidelines should be adhered to when handling sacks.

Hygiene Practices: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling dust.

Conditions for safe storage, including any incompatibilities:

Storage: Conditions for safe storage, including any incompatibilities:
Packaging materials: No special requirements. Storage condition: Stored in a cool, dry, ventilated area.
Further information: Use original container. Protect against physical damage; observe all warnings and precautions listed for the product.

Specific end use(s):

Work Practices: Use this product with adequate ventilation. Handle minimizing dust. Take precautionary measures against static discharges. Safety showers and eye wash stations should be available.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls: Appropriate engineering controls: Production facilities should be provided with running drinking water, local and general aspiration system. In facilities, where titanium dioxide is handled, eating and food storage are not permitted. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures:

Eye/Face Protection:	Wear dust-proof goggles, (protection class 5) according to EN 166.
Skin Protection Description:	Respect main rules concerning the protection clothes for chemicals handling. If skin contact is expected protective clothing is appropriate.
Hand Protection Description:	Glove material: Use protective gloves according to EN374 to prevent skin contact with dust., Break through time: > 60 min
Respiratory Protection:	A respirator must be used if the dust concentration is likely to exceed the occupational exposure limit. An approved dust respirator is recommended as appropriate depending on dust levels and other workplace factors.
Other Protective:	Environmental exposure controls: Do not allow material to contaminate ground water system. It is recommended that the exhaust air of the air-conditioning is filtered off in bag filters.
PPE Pictograms:	

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Appearance: Powdered solid
Color:	White
Odor:	Odorless
Odor Threshold:	Not Available
Boiling Point:	(Deg C): Not determined
Melting Point:	Not available.
Density:	Relative Density >1 (water=1)
Solubility:	Insoluble
Vapor Density:	No information.
Vapor Pressure:	(20 deg C): Not applicable
Evaporation Rate:	not determined
pH:	not determined
Flash Point:	Not provided.
Lower Flammable/Explosive Limit:	not determined
Upper Flammable/Explosive Limit:	not determined
Auto Ignition Temperature:	Not Applicable
Explosive Properties:	Not Applicable
Oxidizing Properties:	Not Applicable

SECTION 10 : STABILITY and REACTIVITY

Reactivity:

Reactivity: The substance is stable under normal storage and handling conditions.

Chemical Stability:

Chemical Stability: Stable under normal conditions.

Possibility of hazardous reactions:

Hazardous Polymerization: Under normal conditions, not hazardous reactions will occur.

Conditions To Avoid:

Conditions to Avoid: No information available.

Incompatible Materials:

Incompatible Materials: No information available.

Hazardous Decomposition Products:

Special Decomposition Products: The following combustion products may be generated: Carbon Dioxide, Carbon Monoxide, Nitrogen Oxides, and Sulfur Oxides and trace volatile organic compounds.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Toxicity: LD50>3000mg/KG mouse oral
:C50: Not available

Chronic Effects: Not available.

Carcinogenicity: This material is not a known carcinogen. Classified NONE by NTP, NONE by OSHA, 3(not classifiable for humans) by IARC.

Mutagenicity: Not available.
Teratogenicity: Not available.
Other Toxicological Information: Not Available

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and degradability:

Biodegradation: Non-hazardous. Short term degradation products are not likely.

Mobility in soil:

Mobility In Environmental Media: Hazardous for water.

Notes : None of the ingredients are listed on the Regulation List of Substances of Very High Concern.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: The product is not hazardous for waste dumping in industrial or sanitary retention ponds. Disposal of the waste in correspondence with the state and local regulations.

Contaminated Packaging: Product/Packaging disposal: Contaminated packages are not considered hazardous. If recycling is not practicable, dispose of in compliance with local regulations.

Notes : Must not dispose with household garbage.

SECTION 14 : TRANSPORT INFORMATION

DOT Pictograms:



IATA Shipping Name: Not regulated

IATA UN Number: Not regulated

IATA Packing Group: Not regulated

IATA Pictograms:



IMDG UN Number : Not regulated

IMDG Shipping Name : Not regulated

IMDG Hazard Class : Not regulated

IMDG Packing Group : Not regulated

RID UN Number : Not regulated

RID Shipping Name : Not regulated

RID Hazard Class : Not regulated

RID Packing Group : Not regulated

ICAO UN Number : Not regulated

ICAO Shipping Name: Not regulated

ICAO Hazard Class : Not regulated

ICAO Packing Group : 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.

Section 302 EHS: None of the chemicals in this product have a threshold planning quantity (TPQ)

CERCLA Section 302: None of the chemicals in this product have a reportable quantity.(RQ)

OSHA Process Safety: None of the chemicals in this product are considered highly hazardous by OSHA.

California PROP 65: None of the chemicals in this product are listed.

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

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

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	J

SDS Revision Date: June 30, 2016

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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