SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name:	**Westco PPT Silica (All Grades)**
SDS Manufacturer Number:	20

Other means of identification:

Product Description:	It is used in rubber compounds as a reinforcing agent to increase tensile and tear strength as well as resistance to abrasion. Also used as a carrier agent for dry liquid concentrates
Synonyms:	Precipitated Silica; Hydrated Precipitated Amorphous Silica

Recommended use of the chemical and restrictions on use:

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 classified according to the Globally Harmonized System of Classification and Labeling of Chemicals. (GHS)

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

Emergency Overview:	MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.
Eye:	May cause irritation, redness and pain.
Skin:	May cause irritation with dryness and abrasion.
Inhalation:	May cause dryness and irritation to mucous membranes, nose, and throat. Symptoms may include coughing, sore throat and wheezing.
Ingestion:	No adverse effects expected.
Chronic Health Effects:	Repeated exposure may cause symptoms similar to those listed for acute effects. Synthetic amorphous silica does not produce silicosis.
Carcinogenicity:	This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, ACGIH or OSHA.
Aggravation of Pre-Existing Conditions:	No information found.

Precipitated, Amorphous Silica

Route of Exposure:	Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:	This product contains synthetic amorphous silica, not to be confused with crystalline silica such as quartz, cristobalite or tridymite or with diatomaceous earth or other naturally occurring forms of amorphous silica that frequently contain crystalline forms. Laboratory studies have also been conducted in small animals via inhalation of levels of precipitated silica dust of up to 126 mg/cu.m per periods from six months to two years. Although precipitated silica was temporarily deposited in the animals' lungs, most of the deposited material was cleared soon after the dust exposure ended.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Sulfuric acid sodium salt	7757-82-6	Concentration: < = 2.0 %	
Precipitated, Amorphous Silica	112926-00-8	Concentration: > = 98.0 %	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact: Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room or physician as further treatment may be necessary.

Skin Contact: Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room or physician as further treatment may be necessary.

Inhalation: Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

Ingestion: Gently wipe or rinse the inside of the mouth with water. Sips of water can be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician for treatment information.

Notes : In case of doubt, seek medical advice.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Product does not burn. Any media permissible.

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:

Personal Precautions: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Product forms slippery surface when combined with water. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions:

Environmental Precautions: Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up:

Spill Cleanup Measures: Vacuum spilled material and place in closed plastic bags for disposal.

Methods and materials for containment and cleaning up:

Methods for containment: Avoid combining product with water in order to prevent forming a slippery surface. Sweep up or vacuum material.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling: Store in a dry area. When transferring material into flammable solvents, use proper grounding to avoid electrical sparks. Product surface alterations caused by calcining or mixing with additives may alter toxicological properties.

Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

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

Conditions for safe storage, including any incompatibilities:

Storage: Store in accordance with local regulations. 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. Do not store in unlabeled containers

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:	Use appropriate engineering controls such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures:

Eye/Face Protection:	If eye exposure to powder is likely, use tight fitting chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.
Hand Protection Description:	Protection gloves: Cloth. Leather. Rubber.
Respiratory Protection:	Use NIOSH approved dust filter respirator for exposure above permissible exposure limits. The respiratory use limitations made by NIOSH or the manufacturer must be observed. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
Other Protective:	Other protection equipment: Aprons or chemical suits should be used when necessary to prevent skin contact.
PPE Pictograms:	

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance:	Powder
Color:	White
Odor:	Odorless.
Boiling Point:	2230 deg C (4046 deg F).
Melting Point:	1610 deg C (2930 deg F).
Specific Gravity:	2.1.
Solubility:	Negligible (< 0.1%).
Vapor Density:	(Air=1): No information found.
Vapor Pressure:	(mm Hg): No information found.
Percent Volatile:	By volume @ 21 deg C (70 deg F): 0.
Evaporation Rate:	(BuAc=1): No information found.
pH:	6.0 - 7.5 (in 10% slurry).

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability:	Stable.

Possibility of hazardous reactions:

Hazardous Polymerization:	Will not occur.

Conditions To Avoid:

Conditions to Avoid:	High temperature (>800 C) treatment (calcining). Strong bases, oxidizers, hydrogen fluoride, fluorine, xenon hexafluoride, oxygen difluoride, and chlorine trifluoride. Substance can explode when wet and heated with magnesium.

Incompatible Materials:

Incompatible Materials:	(Materials to Avoid): Strong bases, oxidizers, hydrogen fluoride, fluorine, xenon hexafluoride, oxygen difluoride, and chlorine trifluoride. Substance can explode when wet and heated with magnesium.

Hazardous Decomposition Products:

Special Decomposition Products:	Oxides of carbon and silicon may be formed when heated to decomposition.
Notes :	Hazardous Thermal Decomposition/Combustion Products: None Known. Skin Irritation: Mildly irritation. Eye Irritation: Mildly irritation.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Precipitated, Amorphous Silica :

Acute Toxicity:	Excessive contact with powder can cause drying of mucous membranes of nose, eyes and throat duo to absorption of moisture and oils. This material can also cause nasal and respiratory tract irritation and nosebleed. Eye contact with powder can result in mild irritation.

Precipitated, Amorphous Silica :

Chronic Effects:	An epidemiological study was conducted which included 165 precipitated silica workers who had been exposed an average time span of 8.6 years. Of these 165 workers, 44 had been exposed for an average of 18 years. No adverse effects were noted in complete medical examinations (including chest roentgenograms) of these workers. Pulmonary function decrements were corrected only with smoking and age but not with the degree or duration of dust exposure. Laboratory studies have also been conducted in small animals via inhalation of levels of precipitated silica dust of up to 126 mg/cu.m per periods from six months to two years. Although precipitated silica was temporarily deposited in the animals' lungs, most of the deposited material was cleared soon after the dust exposure ended. The result of all studies known indicated a very low order of pulmonary activity for synthetic precipitated silica. It is recommended that persons with breathing problems or lung disease should not work in dusty areas unless a physician approves and certifies their fitness to wear respiratory protection. IARC reviewed the data on amorphous silica in 1996 and concluded there was inadequate evidence from both epidemiology and experimental studies that amorphous silica is a carcinogenic risk factor. The organization concluded that amorphous silica is in Group 3.
Carcinogenicity:	This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, ACGIH or OSHA.

SECTION 12 : ECOLOGICAL INFORMATION

Environmental Fate:	.

Precipitated, Amorphous Silica :

Ecotoxicity:

Ecotoxicity:	EC0: 1000ppm (daphnia magna) (24-hour acute immobilization test)-slight to very low toxicity. EC0: 10,000ppm (rainbow trout) (4-day static study)-slight to very low toxicity. EC0: 10,000ppm (freshwater fish) (96-hour static acute toxicity study)-slight to very low toxicity.
Environmental Fate:	When released into the soil, this material is not expected to biodegrade.

Persistence and degradability:

Biodegradation:	Not readily biodegradable.

Bioaccumulative potential:

Bioaccumulation:	This product shows a low bioaccumulation potential.

Other adverse effects:

Effect of Material On Aquatic Life:	This material is not expected to be toxic to aquatic life.
Notes :	No known significant effects or critical hazards.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal:	Waste from this product may be disposed of in sanitary landfill and local regulations permit. Care should be taken to avoid creation of dust during disposal operations. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing or use contamination of this product may change the waste management options. Local disposal regulations may differ from state disposal regulations. Dispose of container and unused contents in accordance with state and local requirements.

SECTION 14 : TRANSPORT INFORMATION

DOT Hazard Class:	Non regulated.
DOT Pictograms:	
IATA Hazard Class:	Non regulated.
IATA Pictograms:	
IMDG Hazard Class :	Non regulated.

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Precipitated, Amorphous Silica :

TSCA Inventory Status:	All components of this product are listed in the TSCA inventory of Chemical Substances.
CERCLA Section 302:	No products were found.
Section 311/312 Hazard Categories:	Not found.
Safety Phrase:	* S24 - Avoid contact with skin. * S25 - Avoid contact with eyes. * S36 - Wear suitable protective clothing.

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 23, 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