



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **Westco CTP 80-20**

Other means of identification:

Product Description: Pthalimide Retarder

Synonyms: Substance Name: N-(Cyclohexylthio)phthalimide; CTP; CTPI; 1H-Isoindole-1,3-(2H)-dione, 2-(cyclohexylthio)-. PVI

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Westco CTP 80-20 is a pre-vulcanization inhibitor for both natural and synthetic rubber.

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 Sensitizer, Category 1.
* Eye Irritant, Category 2B.
* Hazardous to the aquatic environment: Acute, Category 1, Chronic, Category 1

Hazard Statements: May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements: Avoid breathing dust/fume/gas/mist/vapours/spray.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Collect spillage.
Dispose of contents/container in according with local regulation.

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

OSHA Class: No Information Provided.

Emergency Overview: *May cause skin sensitization,
*Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

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

Potential Health Effects: Dusts from this product may cause irritation to the eyes, skin, and respiratory system.

Eye: Eye contact may cause severe irritation, redness, tearing and blurred vision.

Skin: *Contact with skin can cause allergic reaction (sensitization) in some individuals.
*May cause redness, edema, drying, and cracking of the skin.
*May be absorbed through the skin.

Inhalation: Inhalation of large amounts may cause nausea or vomiting.

Ingestion: May be harmful if swallowed. May cause vomiting. May cause stomach discomfort.

Carcinogenicity: Not classified

Physical Health Hazard: No Information Provided.

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.
N-(cyclohexylthio)phthalimide	17796-82-6	77-82 %	
Microcrystalline Wax	632231-60-7	17-21 %	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	In case of eyes contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin Contact:	In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
Inhalation:	In case of inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion:	In case of ingestion: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.
Notes :	In all cases of doubt, or when symptoms persist, seek medical attention. Most important symptoms and effects, both acute and delayed: May cause an allergic skin reaction. Indication of any immediate medical attention and special treatment needed: If skin irritation or rash occurs, get medical advice/attention.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Suitable extinguishing media: Water, foam.
Unsuitable extinguishing media:	No Information Provided.

Specific hazards arising from the chemical:

Hazardous Combustion Byproducts:	Toxic emissions may result if product is involved in a fire. Fire produces highly toxic sulphur dioxide gas.
Unusual Fire Hazards:	.Special hazards arising from the substance or mixture In case of fires, hazardous combustion gases are formed: CO ₂ + SO ₂ + NO _x , if insufficient air by combustion the toxic CO may arise.

Special protective equipment and precautions for fire-fighters:

Protective Equipment:	Wear self-contained breathing apparatus (SCBA) and full fire fighting protective gear.
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SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personnel Precautions:	For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation. If insufficient ventilation, wear suitable respiratory equipment. Avoid inhalation of dust. For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.
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Environmental precautions:

Environmental Precautions:	Do not allow material to be released to the environment without proper governmental permits.
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Methods and materials for containment and cleaning up:

Spill Cleanup Measures:	Clean up spills immediately, using the appropriate protective equipment. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation. Clean up affected area.
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.

Reference to other sections:

Other Precautions:	No Information Provided.
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Notes :	Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.
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Additional information: Not applicable.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

- Handling:** Wear appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not ingest. Use with adequate ventilation. Wash thoroughly after handling.
- Hygiene Practices:** Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.
- Special Handling Procedures:** No Information Provided.

Conditions for safe storage, including any incompatibilities:

- Storage:** Conditions for safe storage, including any incompatibilities: Store in a dry and well-ventilated place. Keep container tightly closed. Store away from strong acids. Avoid exposure to direct sunlight.

Specific end use(s):

- Work Practices:** Safety showers and eye wash stations should be available.
- Notes :** Specific end use(s): Not applicable.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

- Engineering Controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Provide safety shower and cleaning eyes equipment. Avoid dust generation. Ensure good ventilation and local exhaustion of the working area. Eliminate Ignition sources.

Individual protection measures:

- Eye/Face Protection:** Wear safety goggles
- Skin Protection Description:** Body protection: Protective work clothing.
- Hand Protection Description:** Type of gloves recommended-Butyl rubber.
Minimum breakthrough time / gloves: 480 min.
Minimum thickness / gloves 0.11 mm.
- Respiratory Protection:** Dust mask, in case of dust-producing handlings.
- Other Protective:** No Information Provided.

PPE Pictograms:



- Notes :** Thermal hazards: Wear suitable protective clothing to prevent heat.
- Environmental exposure controls: Avoid discharge into the environment. According to local regulations, Federal and official regulations.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

- Physical State:** Appearance: Powder, solid or granule
- Physical State Appearance:** Solid.
- Color:** White
- Odor:** Slight
- Odor Threshold:** No Information Provided.
- Boiling Point:** Boiling point/range (°C): Not available
- Melting Point:** Melting point/range (°C): 91-95°C(ca. 101.3 kPa)
- Density:** Relative Density: ca. 1.354 g/cm³(20°C)
Bulk density (kg/m³): Not available
- Specific Gravity:** Not Available
- Specific Volume:** No Information Provided.
- Solubility:** slightly soluble.
- Vapor Density:** Not Available
- Vapor Pressure:** Vapour pressure (20°C): Not available
- Percent Volatile:** No Information Provided.
- Evaporation Rate:** Not Available
- pH:** Not Available
- Molecular Formula:** C₁₄H₁₅NO₂S
- Molecular Weight:** 261.34

Viscosity:	Not available.
Coefficient of Water/Oil Distribution:	n-Octanol/Water (log Po/w): log Pow: 2.82-3.56(25°C, PH=6.9)
Flammability:	Not flammable
Flash Point:	(°C): 153.5±3°C(101.325kPa)
Flash Point Method:	Cleveland Open Cup (C.O.C).
Lower Flammable/Explosive Limit:	(%): Not available Not available
Upper Flammable/Explosive Limit:	Not Available
Auto Ignition Temperature:	Not Available
Explosive Properties:	Non Explosive
Oxidizing Properties:	No Oxidizing properties
VOC Content:	No Information Provided.

9.2. Other information:

Notes :	Flammability (solid, gas): Non flammable Ignition temperature (°C): Not available Fat solubility(solvent- oil to be specified) etc: Not available Surface tension: Not available Dissociation constant in water(pKa): Not available Oxidation-reduction Potential: Not available
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SECTION 10 : STABILITY and REACTIVITY

Reactivity:

Reactivity:	The substance is stable under normal storage and handling conditions. Possibility of hazardous reactions: No dangerous reactions known.
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Chemical Stability:

Chemical Stability:	Stable at room temperature in closed containers under normal storage and handling conditions. It decomposes at temperature around 120°C.
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Possibility of hazardous reactions:

Hazardous Polymerization:	None under normal processing.
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Conditions To Avoid:

Conditions to Avoid:	Incompatible materials. Excess heat. Dust generation, exposure to moist air or water.
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Incompatible Materials:

Incompatible Materials:	Oxidizing agents.
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Hazardous Decomposition Products:

Special Decomposition Products:	CO ₂ + SO ₂ + NO _x , if insufficient air by combustion the toxic CO may arise.
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SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Toxicity:	Acute toxicity: LD50(Oral, Rat): ≥2000 mg/kg bw LD50(Dermal, Rabbit): ≥2000 mg/kg bw LC50(Inhalation, Rat): Not available
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N-(cyclohexylthio)phthalimide :

NIOSH:	No Information Provided.
OSHA:	No Information Provided.
IARC:	No Information Provided.
NTP:	No Information Provided.
Sensitization:	Respiratory or skin sensitization: May cause an allergic skin reaction.
Mutagenicity:	Germ cell mutagenicity: Not classified
Reproductive Toxicity:	Not classified

N-(cyclohexylthio)phthalimide :

Eye:	Moderate irritation
Skin:	Moderate irritation
Carcinogenicity:	No Information Provided.
Reproductive Toxicity:	No Information Provided.
Teratogenicity:	No Information Provided.
Neurological Effects:	No Information Provided.

Other Toxicological Information: No Information Provided.

SECTION 12 : ECOLOGICAL INFORMATION

Persistence and degradability:

Biodegradation: Persistence and degradability: Not available.

Bioaccumulative potential:

Bioaccumulation: Bioaccumulative potential: Not available.

Mobility in soil:

Mobility In Environmental Media: Mobility in soil: Slightly soluble in water.

Other adverse effects:

Effect of Material On Aquatic Life: Acute toxicity: LC50 0.69 mg/L
Time: 96h
Species : Fish
Method : OECD 203
Evaluation: N/A
Remarks: N/A

Acute toxicity: EC50 1.21 mg/L
Time: 48h
Species : Daphnia
Method : OECD 202
Evaluation: N/A
Remarks: N/A

Acute toxicity: EC50 >0.093 mg/L
Time: 72h
Species : Algae
Method : OECD 201
Evaluation: N/A
Remarks: N/A

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements

Contaminated Packaging: Product / Packaging disposal: If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

N-(cyclohexylthio)phthalimide :

RCRA Number: No Information Provided.

Ignitable: No Information Provided.

Corrosive: No Information Provided.

Reactive: No Information Provided.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: NON REGULATED

DOT Pictograms:



IATA Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-(cyclohexylthio)phthalimide) Marine Pollutant

IATA UN Number: 3077

IATA Hazard Class: Class 9

IATA Packing Group: 9

IATA Pictograms:



IMDG UN Number : 3077

IMDG Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-(cyclohexylthio)phthalimide) Marine Pollutant

IMDG Hazard Class : 9

IMDG Packing Group : III

ADR UN Number: 3077

ADR Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-(cyclohexylthio)phthalimide) Marine Pollutant

ADR Hazard Class: Class 9

ADR Packing Group : III
 RID UN Number : 3077
 RID Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-(cyclohexylthio)phthalimide) Marine Pollutant
 RID Hazard Class : 9
 RID Packing Group : III
 ICAO UN Number : 3077
 ICAO Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-(cyclohexylthio)phthalimide) Marine Pollutant
 ICAO Hazard Class : 9
 ICAO Packing Group : III

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

TSCA Inventory Status: All the constituents of this product are TSCA listed or exempt from listing.

SARA: This product contains chemicals which are subject to the reporting requirements of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III (40CFR, Part 372).

Risk Phrases: * R43 - May cause sensitization by skin contact.
 * R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase: * S22 - Do not breathe dust.
 * S24 - Avoid contact with skin.
 * S36 - Wear suitable protective clothing.
 * S37 - Wear suitable gloves.
 * 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.

Other regulatory info. Relevant information regarding authorization: Not applicable.
 Relevant information regarding restriction: Not applicable.
 Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.
 Other National regulations: Not applicable



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: September 02, 2015

Notes : 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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