



Material Safety Data Sheet

FLXP0105

Date of Printing: 12/07/2000

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SANTOGARD PVI-wgr

MSDS NO. FLXP0105

Chemical Name: N-(Cyclohexylthio)phthalimide. Wax Granules.

Synonyms: CTP; CTPI; 1H-Isoindole-1,3-(2H)-dione, 2-(cyclohexylthio)-. Wax Granules.

Use: Pre-Vulcanization Inhibitor

Manufactured By: Flexsys America L.P. 260 Springside Drive Akron OH 44333 USA

Emergency Telephone: CHEMTREC: 1-800-424-9300 (TOLL FREE - USA and Territories)
703-527-3887 (ELSEWHERE - Collect Calls Accepted)

CANUTEC: 613-996-6666 (Canada)

SETIQ: 91-800-00-214 (Mexico)

Prepared By: Flexsys America Product Safety Phone (330) 668-8281 FAX (330) 668-8281

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components/CAS#	Percent
N-(Cyclohexylthio)phthalimide 17796-82-6	78-82
Paraffin Wax 64742-51-4	18-22
Butyl Oleate 142-77-8	0.5-1.5

3. HAZARDS IDENTIFICATION

Hazard Information

Emergency Overview: WARNING! Keep away from heat, sparks, and flame. This material is irritating to skin, eyes and respiratory tract.

Eye Contact: Causes eye irritation. Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

Skin Contact: May cause an allergic skin reaction. May cause a rash and itching of the skin. May be absorbed through the skin and contribute to the symptoms listed under ingestion.

Inhalation: May cause vomiting. Illness may occur after a single overexposure by inhalation to relatively large quantities of this material.

Ingestion: May be harmful if large amounts are swallowed. May cause stomach discomfort. May cause vomiting. This product has laxative properties and may result in abdominal cramps and diarrhea.

FLXP0105



Responsible Care

Page 1 of 5

MARKETED BY
HARWICK STANDARD
DISTRIBUTION CORPORATION
60 S. Seiberling Street • Akron, Ohio 44305

4. FIRST AID MEASURES

In Eyes:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
On Skin:	Remove contaminated clothing. Wash skin with water, using soap if available. Remove contaminated clothing and laundry before reuse. Get medical attention if irritation persists.
Inhaled:	Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.
Swallowed:	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
Notes To Physician:	Provide symptomatic/supportive care as necessary. Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE FIGHTING MEASURES

Flash Point (°F/C):	350°F / 177°C
Flash Point Method:	Pensky-Martens Closed Cup
Autoignition Temp. (°F/C):	986°F
Lower Explosion Limit in Air (LEL):	Not Determined
Upper Explosion Limit in Air (UEL):	Not Determined.
Extinguishing Media:	Water fog, carbon dioxide, foam, dry chemical
Special Exposure Hazards:	Fight fire from a safe distance and from a protected location. Use water spray to cool fire exposed surfaces. Decomposition in fire may produce toxic gases. Do not allow runoff to enter waterways.
Special Protective Equipment:	Fire fighters should wear full protective clothing, including self-contained breathing equipment.
Unusual Fire/Explosion Hazards:	Toxic emissions may result if product is involved in a fire. Fire produces highly toxic sulfur dioxide gas

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures:	Wear protective equipment. Sweep, vacuum or shovel and place in closable container for disposal.
Procedure for Cleaning/Absorption:	Isolate spill and stop leak where safe. Scoop up and remove. Do NOT spread spilled product with water.
CERCLA Reportable Quantity (RQ):	Not Applicable

7. HANDLING AND STORAGE

Handling:	Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material. Avoid contact with eyes, skin and clothing. Reclose containers of unused product. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Do not reuse this container.
Storage:	Store closed containers in a cool, dry, well-ventilated area. Store away from strong acids. Avoid exposure to direct sunlight. Do not double stack.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:	Wear safety glasses or goggles to protect against exposure.
Skin Protection:	Normal work coveralls. Launder contaminated clothing before reuse.
Gloves:	Use gloves as a standard industrial handling procedure. All cleanable impervious glove types are acceptable.

FLXP0105



Responsible Care

Page 2 of 5

Respiratory Protection:	Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. Firefighting; use a Positive Pressure Demand Full Face Self Contained Breathing Apparatus.
Ventilation:	General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during the use of this product. If air is to be recirculated, it must be filtered properly. Use local exhaust to control to recommended P.E.L.
Airborne Exposure Limits:	Flexsys PEL/8Hr TWA: 0.5 mg/m ³ (Skin*). Paraffin Wax = OSHA Pel/8Hr TWA: 2 mg/m ³ (fume). ACGIH TLV/8Hr TWA: 2 mg.m ³ (fume).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to off-white granules.
Odor:	STRONG, PUNGENT
pH:	N/A
Specific Gravity:	1.26 @ 25°C
Density:	Unknown
Bulk Density:	1260 kg/m ³
Melting Point (°F/C):	85°C
Boiling Point (°F/C):	Not Determined
Vapor Pressure:	Negligible
Vapor Density (Air=1):	Not Determined
% Volatile by Volume:	0.7% max
Solubility in Water:	INSOLUBLE
Other Solubility:	Soluble in Acetone Organic liquids, including fats and oils Alcohol
Viscosity:	Not determined.
Other Data:	Not determined.
Molecular Weight:	Mixture
Molecular Formula:	C14-H15-O2-N-S Mixture

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation. Stable if protected from heat and exposure to air. Loses potency with time Protect from moisture
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Keep away from heat, sparks and flame. Heat. Moisture.
Materials to Avoid:	Contact with acids.
Hazardous Decomposition Products:	Toxic fumes Carbon monoxide Oxides of nitrogen Sulfur dioxide
Additional Guidelines:	Not Applicable

11. TOXICOLOGICAL INFORMATION

Target Organs	
Acute Oral LD50 (mg/kg):	>2600 mg/kg
Acute Dermal LD50 (mg/kg):	>5010 mg/kg
Acute Inhalation LC50 (mg/l):	Not Determined
Principle Routes of Exposure:	Eyes. Inhalation. Dermal - skin.
Ingestion:	May be harmful if large amounts are swallowed. May cause stomach discomfort. May cause vomiting. This product has laxative properties and may result in abdominal cramps and diarrhea.
Skin Contact:	May cause an allergic skin reaction. May cause a rash and itching of the skin. May be absorbed through the skin and contribute to the symptoms listed under ingestion.

FLXP0105



Responsible Care

Page 3 of 5

Inhalation:	May cause vomiting. Illness may occur after a single overexposure by inhalation to relatively large quantities of this material.
Eye Contact:	Causes eye irritation. Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.
Aggravated Conditions:	Pulmonary disorders. Dermal ailments.
Carcinogenicity Comment:	This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA. Carcinogenic: Category 3
Other:	Decomposition products and fumes from vulcanization and cross-linking may cause eye, skin and respiratory sensitization. May be a skin sensitizer.
Primary Irritation Effect:	Moderately irritating. Sensitizer.
Carcinogenicity:	Both negative and positive results in standard tests using animals, animal and bacterial cells.
Genotoxicity:	No adverse effects in standard tests using yeast cells.
Reproductive/Developmental Toxicity:	No evidence of teratogenicity in animal studies using rats, mice and hamsters

12. ECOLOGICAL INFORMATION

Acute Fish Toxicity:	96Hr LC50 Rainbow Trout = 0.40 mg/l. 96Hr LC50 Bluegill Sunfish = 1.20 mg/l.
Acute Crustaceans Toxicity:	96Hr LC50 Fathead Minnow = 0.42 mg/l.
Acute Algae Toxicity:	48Hr EC50 Daphnia Magna: 32.0 mg/l.
Octanol/Water Coefficient:	96Hr EC50 Algae = 21.0 mg/l
Chemical Fate Information:	4600
Other Information:	Bioconcentration Factor: 130 (calculated). Not Available

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method:

This material is not a RCRA hazardous waste. Bury in a licensed landfill or burn in an approved incinerator according to federal, state, and local regulations. Empty containers should be handled in a manner not to cause dusting during collection, transportation and disposal.

Contaminated Packaging:

If empty container retains product residues, all label precautions must be observed. Store away from ignition sources. Transport with all closures in place. Return for reuse or dispose according to national or local regulations. Dispose of container according to national or local regulations.

14. TRANSPORT INFORMATION

DOT:DOT Status:	Regulated for AIR only
DOT Shipping Name:	AVIATION REGULATED SOLID, NOS. NOTE: Regulated for AIR transport ONLY. RUBBER PRESERVATIVE, N.O.I.B.N. (non-air).
DOT Reportable Quantity (lbs):	None
ICAO/IATA:Status:	AVIATION REGULATED SOLID, NOS, [N-(CYCLOHEXYLTHIO)-PHTHALIMIDE, 9, UN3335. RUBBER PRESERVATIVE, N.O.I.B.N. (for non-air transport)
Proper Shipping Name:	See DOT
UN/NA Number:	UN3335 (Air Only). NONE for other modes.
IMDG:Status:	See DOT
Proper Shipping Name:	See DOT
TDG (Canada):Status:	See DOT
Proper Shipping Name:	See DOT

FLXP0105



Responsible Care

Page 4 of 5

15. REGULATORY INFORMATION

Worldwide Inventory Status

TSCA (USA):	Listed
Canadian DSL:	Listed
Canadian NDSL:	N/A
EINECS/ELINCS (Europe):	Listed
Japanese Inventory (ENCS):	Listed
Korean Chemical Inventory (ECL):	Listed
Australian Chemical Inventories (AICS):	Listed
New Zealand (NZ):	Listed
Phillipines (PICCS) Inventory:	Listed
China (CLECS):	Listed

US Regulatory Rules

SARA Section 302:	None Found
SARA 311/312 Hazard Categories:	Immediate Delayed
SARA 313 Chemical:	N/A
RCRA Status:	Not a RCRA waste.

Other Regulations:

California Proposition 65:	NONE
New Jersey Right-to-Know List:	N/A
Pennsylvania Right to Know List:	N/A
Florida Right to Know:	N/A
Minnesota Right to Know:	N/A
MA Right to Know Law:	N/A

FDA Status 21 CFR: Not Regulated For Use in 21 CFR

Canadian Regulations

WHMIS Hazard Class:	D2B TOXIC MATERIALS / Materials Causing Other Toxic Effects
NPRI:	N/A

16. OTHER INFORMATION

Hazard Rating Systems:

HMIS Classification:	HEALTH 2, FLAMMABILITY 1, REACTIVITY 0
NFPA Rating:	HEALTH 2, FLAMMABILITY 1, REACTIVITY 0

The following has been revised since the last issue of this MSDS:

Nothing has been revised.

Additional Information: WHMIS Ingredient Disclosure List (Canada)

Important Note:

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

END OF MSDS

FLXP0105



Responsible Care

Page 5 of 5