

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product identifier used on the label:

Product Name: UV Boost Additive
Product Code: 229871

Other means of identification:

Recommended use of the chemical and restrictions on use:

Chemical manufacturer address and telephone number:

Manufacturer Name: Perma-Chink Systems, Inc.
Address: 1605 Prosser Road
Knoxville, TN 37914
USA
Website: www.permachink.com
General Phone Number: 800-548-3554
General Fax Number: 865-523-9475
Customer Service Phone Number: 865-524-7343

Emergency phone number:

Emergency Phone Number: CHEMTREC 1-800-424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word: DANGER.

GHS Class: Serious Eye Damage. category 1.

Hazard Statements:
H318 - Causes serious eye damage.
H302 - Harmful if swallowed.
H402 - Harmful to aquatic life.

Precautionary Statements:

P264+P265 - Wash hands thoroughly after handling. Do not touch eyes.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P305+P354+P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P318 - If exposed or concerned get medical advice.

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

Potential Health Effects:

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

Skin: Prolonged or repeated contact may cause skin irritation.

Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation.

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

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Non Hazardous ingredient(s)	No Data	90 by weight	
1-Piperidinyloxy,4-hydroxy-2,2,6,6-tetramethyl-	2226-96-2	10 by weight	218-760-9

SECTION 4: FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue rinsing. Get medical attention, if irritation or symptoms of overexposure persists.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

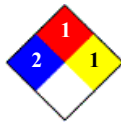
Suitable Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.
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Special protective equipment and precautions for fire-fighters:

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

NFPA Health:	2
NFPA Flammability:	1
NFPA Reactivity:	1



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use proper personal protective equipment as listed in Section 8.
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Environmental precautions:

Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
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Methods and materials for containment and cleaning up:

Methods for containment:	Contain spills with an inert absorbent material such as soil or sand. Prevent from spreading by covering, diking or other means. Provide ventilation.
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Methods for cleanup:	Clean up spills immediately observing precautions in the protective equipment section. Provide ventilation.
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SECTION 7: HANDLING and STORAGE

Precautions for safe handling:

Handling:	Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing. Wash hands thoroughly after handling.
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Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.
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Conditions for safe storage, including any incompatibilities:

Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use.
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SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls:

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Individual protection measures:

Eye/Face Protection:

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description:

Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Respiratory Protection:

A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PPE Pictograms:



SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Liquid.
Color:	dark orange.
Odor:	Odorless.
Boiling Point:	212°F
Melting Point:	Not determined.
Density:	8.3 - 8.8
Specific Gravity:	1.00 - 1.05
Solubility:	Miscible with water; insoluble in most petroleum solvents
Vapor Density:	>1 Air=1
Vapor Pressure:	Not determined.
Percent Volatile:	75 - 95 by volume
Evaporation Rate:	>1 n-Butyl Acetate = 1
pH:	Not determined.
Molecular Formula:	Mixture
Molecular Weight:	Not applicable.
Viscosity:	Not determined.
Flammability:	Non-Flammable
Flash Point:	Not Flammable
Auto Ignition Temperature:	Not determined.
Explosive Properties:	Not explosive.
Oxidizing Properties:	No Data
Refractive Index:	No Data
Optical Rotation:	Not applicable.
VOC Content:	No Data

SECTION 10: STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization: Not reported.

Conditions To Avoid:

Conditions to Avoid: Heat, flames, incompatible materials, freezing or temperatures below 32 deg. F.

Incompatible Materials:

Incompatible Materials: Oxidizing agents. Strong acids and alkalis.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

1-Piperidinyloxy, 4-hydroxy-2,2,6,6-tetramethyl-

Ingestion: Rat - LD50, 1053mg/kg. Test No. 401 OECD.

Dermal: Rat - > 2000 mg/kg. Test No. 402 OECD.

Skin Irritation: Rabbit - 4 hours, no skin irritation. Test 404 OECD.

Eye Irritation: Rabbit - 24 hours, risk of serious damage to eyes. Test 405 OECD.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

1-Piperidinyloxy,4-hydroxy-2,2,6,6-tetramethyl-

Ecotoxicity: Fish - LC50 Branchydanio Rerio: 545 mg/l for 96 hours.

Environmental Fate: Active ingredient not readily biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Not restricted as a dangerous good.

DOT UN Number: Not restricted as a dangerous good.

IATA Shipping Name: Not restricted as a dangerous good.

IATA UN Number: Not restricted as a dangerous good.

Canadian Shipping Name: Not restricted as a dangerous good.

Canadian UN Number: Not restricted as a dangerous good.

IMDG UN Number: Not restricted as a dangerous good.

IMDG Shipping Name: Not restricted as a dangerous good.

ADR UN Number: Not restricted as a dangerous good.

ADR Shipping Name: Not restricted as a dangerous good.

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

1-Piperidinyloxy, 4-hydroxy-2,2,6,6-tetramethyl-

TSCA Inventory Status: Listed
Canada DSL: Listed

SECTION 16: ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 2
HMIS Fire Hazard: 1
HMIS Reactivity: 1
HMIS Personal Protection: X

Health Hazard	2
Fire Hazard	1
Reactivity	1
Personal Protection	X

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SDS Format:

SDS Author: Perma-Chink Systems, Inc.

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