

SAFETY DATA SHEET
SENTINEL® CUT EDGE SEALANT



SECTION 1 IDENTIFICATION

Product Name SENTINEL® Cut Edge Sealant
Recommended Use PVC Cut-Edge Sealant
Manufacturer Performance Roof Systems
Address 4821 Chelsea Avenue
Kansas City, MO 64130
Phone Number (800) 727-9872
Emergency Number (800) 424-9300 (CHEMTREC)

SECTION 2 HAZARDS

GHS Classification Flammable Liquid: Category 2
Eye Irritation: Category 2A
STOT: Single Exposure: Category 3

Hazard Pictographs



Signal Word

DANGER

Hazard Statements

H322 - Highly flammable liquid and vapor
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

Precautionary Statements

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from open flames. - NO SMOKING
P233 - Keep container tightly closed
P240 - Ground container and receiving equipment
P241 - Use explosion-proof electrical equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing fumes, gas, vapors
P264 - Wash hands, forearms and face thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment.
P280 - Wear protective gloves and clothing

Response

P301+P330+P331 - If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair), Take off immediately all contaminated clothing. Rinse skin with water/shower
P303+P340 - If inhaled, remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists get medical advice/attention.
P370+P378 - In case of fire: Use carbon dioxide (CO₂), foam, dry extinguishing powder to extinguish

ABBREVIATION KEY

GHS = Global Harmonized System
OSHA = Occupational Safety & Health

HCS = Hazard Communication Standard

SAFETY DATA SHEET
SENTINEL® CUT EDGE SEALANT



SECTION 2 HAZARDS

Storage P403+P235 - Store in well-ventilated place. Keep cool
P501 - Store locked up

Disposal P501 - Dispose of contents and/or container in accordance with local, regional and national regulations

SECTION 3 COMPOSITION

Chemical Composition

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT
tetrahydrofuran	109-99-9	80 - 88
Ethene, Chloro, Homopolymer	9002-86-2	5 - 15
Diisononyl Phthalate	28553-12-0	5 - 10
2-Hydroxy-4-(octyloxy)benzophenone	1843-05-6	< 1
Butylated Hydroxytoluene	128-37-0	< 0.2

Note: The above components and their percentages are provided for health and safety purposes, ONLY. This document should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

SECTION 4 FIRST AID MEASURES

Eyes If foreign matter enters eyes, immediately flush with large amounts of potable water for at least 15 minutes or until irritation subsides. Get medical attention if irritation persists.

Skin Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.

Inhalation Remove affected person from source of exposure. Consult a doctor if you feel unwell.

First-Aid, Ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention if unusual reaction is noted.

Symptoms, Acute & Delayed Immediate Medical Attention *Refer to Section 11 - Toxicological Information*
All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials

SECTION 5 FIRE FIGHTING MEASURES

Fire Hazard Highly flammable liquid and vapor

Explosion Hazard May form flammable/explosive vapor-air mixture.

Flash Point -6 °F (-21 °C) **LEL:** 1.5% **UEL:** 12%

Hazardous Products of Combustions Carbon Monoxide, Carbon Dioxide

Extinguishing Media CO2, sand, extinguishing powder. Do NOT use water.

Unsuitable Extinguishing Media Do not use a heavy water stream

Firefighting instructions No special measures required.

Protection Gear Do not enter fire area without proper protective equipment, including respiratory protection.

ABBREVIATION KEY

ASTM = American Society for Testing and Materials (International)
UEL = Upper Explosion Limit

LEL = Lower Explosion Limit

SAFETY DATA SHEET

SENTINEL® CUT EDGE SEALANT



SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Use personal protective equipment as required during use. Evacuate unnecessary personnel. Avoid breathing dust/fumes/gas/mist/vapors.
Environmental Precautions	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
Method and Materials for Containment & Clean Up	Absorb with liquid-binding material (ie. Sand, diatomite, acid binders, universal binders or sawdust). Do not flush with water or aqueous cleansing agents.

SECTION 7 HANDLING AND STORAGE

Handling	Use this product with adequate ventilation. Avoid breathing vapors and fumes. Prevent formation of aerosols. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge Wash thoroughly after handling. Use personal protective equipment as described in Section 8.
Storage	Store indoors in a cool, dry, well-ventilated area. Do not handle or store near an open flame, heat or other sources of ignition. Keep container tightly closed.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH
tetrahydrofuran	109-99-9	590 mg/m ³ TWA 735 mg/m ³ STEL	50 ppm TWA 100 ppm STEL	590 mg/m ³ TWA 735 mg/m ³ STEL
Ethene, Chloro, Homopolymer	9002-86-2	1 mg/m ³ TWA	1 mg/m ³ TWA	N/A
Butylated Hydroxytoluene	128-37-0	N/A	2 mg/m ³ TWA	10 mg/m ³ TWA

PERSONAL PROTECTIVE EQUIPMENT

Pictographs



Eyes/Face

Safety glasses with side shields

Follow the national guidelines concerning the use of protective eye wear.

Hand

Protective Gloves

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary

Skin/Body

Normal work clothing (long sleeved shirts, long pants and smooth bottom work shoes) is recommended.

Inhalation

Use NIOSH or MSHA approved respiratory protective equipment when airborne exposure limits are exceeded.

ABBREVIATION KEY

NIOSH = National Institute for Occupational Safety
 OSHA = Occupational Safety & Health Administration
 ACGIH = American Conference of Governmental Industrial Hygiene
 MSHA = Mine Safety and Health Administration

PEL = Permissible Exposure Level
 TLV = Threshold Limit Value
 TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

SAFETY DATA SHEET

SENTINEL® CUT EDGE SEALANT



SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Clear, colorless liquid
Odor	Ether-like
Odor Threshold	7
pH	No data available
Relative Evaporation Rate	No data available
Melting Point	-108 °C (-163 °F)
Boiling Point	65 °C (149 °F)
Flash Point	-21 °C (-6 °F)
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Specific Gravity (H₂O =1)	No data available
Density	0.930 g/cm ³
Vapor pressure	200 hPa (150 mm Hg)
Vapor Density (AIR=1)	>1
Solubility in Water	Poorly soluble in water
VOC content	< 740 g/l

SECTION 10 STABILITY AND REACTIVITY

Stability	Stable at room temperature in closed containers under advised storage and handling conditions.
Reactivity	Upon combustion CO and CO ₂ are formed
Conditions to Avoid	Extremely high or low temperatures. Open flame.
Incompatible materials	Strong acids. Strong bases.
Hazardous Decomposition	Peroxides

SECTION 11 TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Eyes	
Acute (Immediate)	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Chronic (Delayed)	Causes serious eye irritation.
Skin	
Acute (Immediate)	No adverse effects are expected.
Chronic (Delayed)	No data available
Inhalation	
Acute (Immediate)	May cause irritation to mucus membranes and respiratory tract.
Chronic (Delayed)	No data available
Ingestion	
Acute (Immediate)	Expected to be a low ingestion hazard
Chronic (Delayed)	No data available

ABBREVIATION KEY

SECTION 11 TOXICOLOGICAL INFORMATION

Component Analysis

COMPONENT	CAS NUMBER	ORAL LD50 (mg/kg)	DERMAL LD50 (mg/kg)	INHALATION LC50 (mg/L)
tetrahydrofuran	109-99-9	>1,650 (rat)	N/A	N/A
2-Hydroxy-4-(octyloxy)benzophenone	1843-05-6	>10,000 (rat)	>10,000 (rabbit)	N/A

Component Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IRCA, OSHA and NTP.

Mutagenicity Based on available data, the classification criteria are not met

STOT Single Exposure May cause Irritation to mucus membranes and respiratory tract

STOT Repeated Exposure Based on available data, the classification criteria are not met

Eco toxicity

COMPONENT	CAS NUMBER	FISH LC50 (mg/L)	DAPHNA EC50 (mg/L)	ALGAE EC50 (mg/L)
tetrahydrofuran	109-99-9	>2,160 (fathead minnow) 96 Hours	>3,485 (Water flea) 48 Hours	>3,700 (algae) 72 hours
2-Hydroxy-4-(octyloxy)benzophenone	1843-05-6	>100 (zebra fish) 96 Hours	>0.0052 (Water flea) 48 Hours	>100 (algae) 72 hours
Butylated Hydroxytoluene	128-37-0	>0.57 (zebra fish) 96 Hours	>0.48 (Water flea) 48 Hours	>0.4 (algae) 72 hours

Persistence & Degradability Tetrahydrofuran (109-99-9)
aerobic - Exposure time 28 d
OECD Test Guideline 301D
Result: 39 % - Not readily biodegradable

2-Hydroxy-4-(octyloxy)benzophenone (1843-05-6)
aerobic - Exposure time 28 d
OECD Test Guideline 301B
Result: 6 % - Not readily biodegradable.

Bioaccumulative potential 2-Hydroxy-4-(octyloxy)benzophenone (1843-05-6)
Cyprinus carpio (Carp) - 60 d
- 0.02 mg/l(2-Hydroxy-4-(octyloxy)benzophenone)
Bioconcentration factor (BCF): 89 - 190
(OECD Test Guideline 305C)

Soil Absorption/Mobility No Data

Ozone-Depletion Potential This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B)

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Methods: The transportation, storage, treatment and dispose of this waste must be conducted in accordance with all applicable federal, state and local regulations. Handle empty containers with care because residual vapors are flammable.

Disposal Methods: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

ABBREVIATION KEY

IARC = International Agency for Research on Cancer
NTP = National Toxicology Program
ACGIH = American Conference of Governmental Industrial Hygiene

LD50 = Lethal dose, 50 percent
LC50 = Lethal concentration, 50 Percent
STOT = Specific Target Organ Toxicity

SAFETY DATA SHEET
SENTINEL® CUT EDGE SEALANT



SECTION 14 TRANSPORT INFORMATION

Classification (TDG & DOT) 3 Flammable liquids
Identification Number UN1133
Shipping name Adhesives
Packaging group II - Medium Danger

SECTION 15 REGULATORY INFORMATION

TSCA Inventory Components are listed
DSL Inventory Components are listed
Sara 302 None
Sara 304 None
Sara 311/312 Categories Acute Health Hazard; Fire Hazard
Sara 313 None
Clean Air Act This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
 This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
CA Proposition 65 This product does not contain any chemicals known by the State of California to cause cancer or reproductive harm

Right to Know States

COMPONENT	CAS NUMBER	MA	MN	NJ	PA	RI
tetrahydrofuran	109-99-9	Yes	No	Yes	Yes	Yes
Ethene, Chloro, Homopolymer	9002-86-2	No	No	Yes	Yes	No
Diisononyl Phthalate	28553-12-0	No	No	No	Yes	No
2-Hydroxy-4-(octyloxy)benzophenone	1843-05-6	No	No	Yes	Yes	No
Butylated Hydroxytoluene	128-37-0	No	No	No	Yes	No

SECTION 16 OTHER INFORMATION

Preparation Date January 2021
Revision Date January 2022
Summary of Changes Branding update
Disclaimer The information and recommendations contained herein are to the best of Performance Roof Systems' knowledge and belief, accurate and reliable as of the date issued. Performance Roof Systems does not warrant or guarantee their accuracy or reliability, and Performance Roof Systems shall not be liable for any loss or damage arising out of the use thereof.
 The information and recommendations are offered for the users consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. It is also the users responsibility to make certain that it is relying upon the most recent, updated, information and recommendations available from Performance Roof Systems.

ABBREVIATION KEY

TSCA = Toxic Substances Control Act
 IARC = International Agency for Research on Cancer

DSL = Domestic Substances List (Canada)