

BUTYL SEALANT SYSTEMS BUTYL-LOK

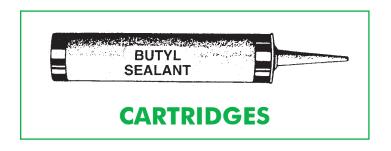
ADHESIVE-PRIMER SYSTEMS

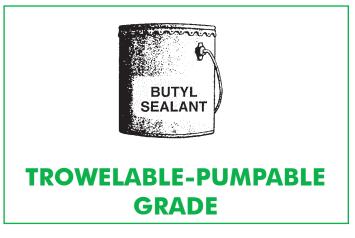
- Water Emulsion Type (non-flammable)
- Solvent Type (flammable)





STANDARD SIZE IN STOCK (Custom sizes available)







The Company with Connections



BUTYL SEALANT SYSTEMS

EPDM RUBBER BUTYL-LOK WRAP

EPDM RUBBER BUTYL-LOK WRAP

- Designed to provide a high strength, watertight seal on properly primed concrete surfaces and concrete structure joints
- •Extremely flexible and can be formed to fit irregular shapes and surfaces
- EPDM Rubber membrane is laminated to a 25 mil pressure sensitive tape





BASIC USE

Butyl-LOK is used to wrap below grade joints to create a watertight seal such as:

- Sanitary Manhole Joints
- Grade Ring Joints
- •Stormwater Manhole Joints
- •Irrigation and Drainage Systems
- Box Culverts
- •Elliptical/Arch Pipe
- Architectural Foundations
- Stormwater Treatment Structures
- Stormwater Inlet Structures
- On-Site Treatment Tanks
- Wet Wells
- •Concrete Bridge Spans
- Vacuum Test Leak Patches
- Underground Utility Vaults



APPLICATION RECOMMENDATIONS

All bonding surfaces should be clean, dry, and free of dirt, dust, debris, oils, and other contaminants. Butyl-LOK is designed to be used with CP-100 Concrete Primer. Primer is recommended. Always allow primer to dry to the touch before applying tape (typically 10-15 minutes depending on ambient conditions). Once the primer is dry immediately install the sealant tape. Do not stretch the sealant tape during application. Overlap the tape ends at lease twice the tape width. Roll the tape to ensure good contact with the substrate.



SAFETY

Prior to working with this or any adhesive product consult product label and Safety Data Sheet (SDS) for necessary health and safety precautions.



LIMITATIONS

Butyl-LOK should not be used in conditions where it may come into direct contact with petroleum distillates such as gasoline, oil, kerosene, diesel oil or other chemical solvents. Clean and dry surfaces are necessary for proper installation of this product.



FEATURES AND BENEFITS

- Broad Temperature Range Performance
- •High Tack and Permanently Flexible
- •Fast Installation
- Long-Term Durability
- •Excellent Adhesion and Formability
- •Saves Time and Labor



PACKAGING

Available in 6", 9", and 12" widths. Contact your A-LOK representative for other sizes.



STORAGE AND SHELF LIFE

Store material in original unopened packaging at temperatures between 4°C to 43°C (40°F to 110°F). Shelf life is 12 months when stored as recommended.

EPDM Rubber Butyl-LOK Technical Data				
Property	Typical Value	Test Method		
Base Polymer (Membrane & Tape)	EPDM			
Color (Membrane & Tape)	Black	Visual		
Tensile Strength	900psi min.	ASTM D 412 Die C		
Elongation	300%	ASTM D 412		
Peel Strength	10 pli @ 21°C (70°F)	ASTM D 413		
Shear Strength	20 psi @ 21°C (70°F)	ASTM D 816		
Brittleness Temperature	-46°C (-50°F)	ASTM D 2137		
Service Temperature	-45°C to 65°C (-50°F to 150°F)			

NOTE: The foregoing information is published as general information only. The listed properties and performance characteristics are approximate values and are not to be interpreted as manufacturing specifications.

CAUTION: All statements and technical information in this document are based on tests or data that A-LOK believes is reliable. However, A-LOK does not warrant or guarantee the accuracy or completeness of this information. The user has sole knowledge and control of factors that can affect the performance of A-LOK's products in the user's intended application. It is the user's responsibility to conduct tests to determine the compatibility of A-LOK's product with the design, structure, and materials of the user's end product and the suitability of Royal's product for the user's method of application and intended use. The user assumes all risk and liability arising out of such use.



The Company with Connections



BUTYL SEALANT SYSTEMS

POLYETHYLENE BUTYL-LOK WRAP



POLYETHYLENE BUTYL-LOK WRAP

- Designed to provide an economical, high strength, watertight seal on properly primed concrete surfaces and concrete structure joints
- •Extremely flexible and can be formed to fit irregular shapes and surfaces
- •Polyethylene Plastic film is laminated to a 50 mil pressure sensitive tape





BASIC USE

Butyl-LOK is used to wrap below grade joints to create a watertight seal such as:

- Sanitary Manhole Joints
- Stormwater Treatment Structures
- Grade Ring Joints
- Stormwater Inlet Structures
- •Stormwater Manhole Joints
- On-Site Treatment Tanks
- •Irrigation and Drainage Systems
- Wet Wells
- Box Culverts

- Concrete Bridge Spans
- •Elliptical/Arch Pipe
- Vacuum Test Leak Patches
- Architectural Foundations
- Underground Utility Vaults



APPLICATION RECOMMENDATIONS

All bonding surfaces should be clean, dry, and free of dirt, dust, debris, oils, and other contaminants. Butyl-LOK is designed to be used with CP-100 Concrete Primer. Primer is recommended. Always allow primer to dry to touch before applying tape (typically 10-15 minutes, will depend on ambient conditions). Once the primer is dry immediately install the sealant tape. Do not stretch the sealant tape during application. Overlap the tape ends at lease twice the tape width. Roll the tape to ensure good contact with the substrate.



SAFETY

Prior to working with this or any adhesive product consult product label and Safety Data Sheet (SDS) for necessary health and safety precautions.

FEATURES AND BENEFITS

- Broad Temperature Range Performance
- •High Tack and Permanently Flexible
- •Fast Installation
- Long-Term Durability
- Excellent Adhesion and Formability
- •Saves Time and Labor



PACKAGING

Available in 6", 9", and 12" widths. Contact your A-LOK representative for additional sizes.



STORAGE AND SHELF LIFE

Store material in original unopened packaging at temperatures between 4°C to 43°C (40°F to 110°F). Shelf life is 12 months when stored as recommended.



LIMITATIONS

Butyl-LOK should not be used in conditions where it may come into direct contact with petroleum distillates such as gasoline, oil, kerosene, diesel oil or other chemical solvents. Clean and dry surfaces are necessary for proper installation of this product.

Polyethylene Butyl-LOK Technical Data					
Property	Typical Value Test Method				
Base Polymer	Butyl				
Color	Black	Visual			
Brittleness Temperature	-46°C (-50°F) ASTM D 2137				
Service Temperature	45°C to 65°C (-50°F to 150°F)				

NOTE: The foregoing information is published as general information only. The listed properties and performance characteristics are approximate values and are not to be interpreted as manufacturing specifications.

CAUTION: All statements and technical information in this document are based on tests or data that A-LOK believes is reliable. However, A-LOK does not warrant or guarantee the accuracy or completeness of this information. The user has sole knowledge and control of factors that can affect the performance of A-LOK's products in the user's intended application. It is the user's responsibility conduct tests to determine the compatibility of A-LOK's product with the design, structure, and materials of the user's end product and the suitability of Royal's product for the user's method of application and intended use. The user assumes all risk and liability arising out of such use.



GENERAL PRODUCT DESCRIPTION

BUTYL-LOK sealant systems are customed engineered and manufactured to comply with current standards and specifications required by the Federal, State and local regulatory agencies for use by the precast concrete industry and its contractors.

BUTYL-LOK sealants are supplied in ready-to-apply forms for all weather installations and conditions. Specific applications are:

- SANITARY AND STORM SEWER MANHOLES
- PIPE (Round, Oval, Flatbase, Elliptical and Arch types)
- BOX CULVERTS
- UTILITY VAULTS
- BURIAL VAULTS
- SEPTIC TANKS AND SEWAGE TREATMENT PLANTS
- WET WELLS
- PRECAST CONCRETE WALL PANEL SYSTEMS



KEY ADVANTAGES

BUTYL-LOK sealants remain permanently flexible and form permanent bonds to a wide variety of substrates including concrete, metals and plastics. These products are designed not to shrink or oxidize and have excellent resistance to environmental temperature extremes, acid and alkaline conditions. Adhesion and cohesion actually improves after joint has been formed and placed in service.



SURFACE PREPARATION

Joint surfaces should be clean and dry. Due to the high adhesive quality of BUTYL-LOK, priming of the joint surfaces is not normally required. However, should wet or unusual application conditions exist, it is recommended that either BUTYL-LOK Emulsion (non-flam) or Solvent (flammable) Adhesive Primer be coated on the joint surface and allowed to dry a minimum of 10 minutes before application of joint sealant.



APPLICATION

BUTYL-LOK bonds instantly to joint surfaces and to itself. Always butt ends of preformed sealant together — never overlap. Leave protective release paper on sealant during application and remove only after structure is ready for coupling. The joint should them be coupled with sufficient pressure for proper joint completion. The resulting annular space after structure is properly coupled, determines the volume (cross-section size) of BUTYL-LOK required.



PRODUCT REFERENCES

BUTYL-LOK meets or exceeds all basic requirements of Federal Specification *SS-S-21 0-A *AASHTO M-198 and ASTM C-990.

*NOTE: Meets all aspects with exception of flash point and fire point.



CHEMICAL COMPOSITION

	TEST METHOD	REQUIRE- MENTS	BUTYL-LOK
Butyl Rubber-Hydrocarbon	ACTAL D. 207	E0 70	E 00/
(% by wt.) Inert Mineral Filler	ASTM D-297	50-70	58%
(% by wt.)	SS-S-210-A	30-50	42.0%
Volatile Matter (% by wt.)	ASTM D-6	2.0 Max.	1.0%

^{*}NOTE: Contains no asbestos fibers or asphaltics.



PHYSICAL PROPERTIES

	TEST METHOD	REQUIRE- MENTS	BUTYL-LOK
Specific Gravity @ 77°F.	ASTM D-71	1.15-1.50	1.25-1.35
Ductility @ 77°F.	ASTM D-113	5.0 Min.	6.0 CM
Cone Penetration @ 77°F.	ASTM D-217	50-100	55-80
Flash Point C.O.C. (°F.)	ASTM D-92	350 Min.	375
Accelerated Aging (Mechanical Oven - 4 hours @ 212°F.)			Maintained 99+% Solids (Flexibility not affected)
UV Resistance (Direct FL Exposure - 365 days)			No Visible Damage
Elongation Initial @ 77°F.			300% Min.
Two Weeks @ 195°F.			300% Min.
Two Weeks - Total Water Immersion			300% Min.
Flow Resistance (1" wide overhead joint exposed to 135°F. for 7 days)			No Flow
Storage Life			Indefinite
Application Temp. Range			0 to 120°F.
Service Temp. Range			-40° to 250°F.



CHEMICAL RESISTANCE

(Total Immersion 112 Days)	REQUIRE- MENTS	BUTYL-LOK
Sulfuric Acid	20%	No Visible Damage
Sodium Hydroxide	5%	No Visible Damage
Ammonium Hydroxide	5%	No Visible Damage
Nitric Acid	1%	No Visible Damage
Ferric Chloride	1%	No Visible Damage
Soap	0.1%	No Visible Damage
Detergent (linear alkyl bensyl sulfonate)	0.1%	No Visible Damage

BUTYL-LOK SEALANT SYSTEMS

PREFORMED TAPES

PRODUCT NO.	DIA. EQUIVALENT	CROSS SECTION SIZE	ROLL LENGTH	ROLLS PER CARTON	FEET PER CARTON	CARTON WEIGHT	CARTONS PER PALLET*
FS-3050	1/2"	.45" x .45"	21.75'	12	261	35 lbs.	40
FS-3075	3/4"	.675" x .675"	14.5'	8	116	33 lbs.	40
FS-3100	1"	.89" x .89"	14.5'	6	87	42 lbs.	40
FS-3125	1-1/4"	1.0" x 1.123"	14.5'	5	72.5	55 lbs.	40
FS-3150	1-1/2"	1.187" x 1.5"	10.75'	4	43	47 lbs.	40
FS-3200	2"	1.875" x 1.675"	7 .5 0 '	4	28	52 lbs.	40

DURA-PLATE™ BUTYL-LOK SEALANT

MT-320	1/2" x 1-1/2"	14'6"	4	58	28 lbs.	45
MT-329	3/8" x 4-1/2"	14'6"	2	29	30.3 lbs.	40
MT-329-A	5/8" x 3-1/2"	14'6"	2	29	38.2 lbs.	40
MT-329-B	3/4" x 3-1/2"	14'6"	2	29	45.5 lbs.	40

FR 500 DURA-PLATE™ LAP SEALANT 1/10 Gallon Cartridges

CT-0335 LAP SEALANT-LS600 (WHITE) 1/10 Gallon Cartridges – Packaged 10 tubes/case – 120 cases/pallet

*Note: All pallets shrink wrapped – suitable for outside storage.

Custom sizes available upon request – Call us with your special requirements.

BK-0069	TROWELABLE – PUMPABLE GUIDE	Available in 5 gallon pails
R-900	1/10 Gallon CARTRIDGES (BLACK)	Packaged 10 tubes/case – 120 cases/pallet
CN-0189	ADHESIVE-PRIMER: SOLVENT TYPE (flammable) .	1 Gallon pails – 6 per case
	(9% WASH)	

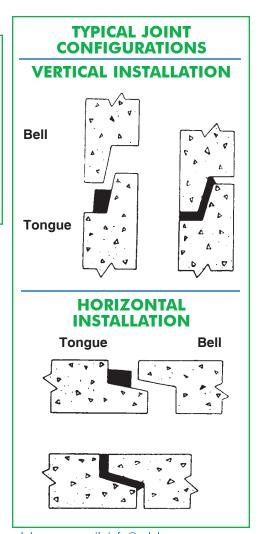
HORIZONTAL JOINTS

PIPE	RECO	MMENDED S	SIZES
SIZE (ID)	1/64" TO 1/4**	5/16" TO 1/2**	9/16" TO 11/16**
12"	1/2"	3/4"	1"
15"	1/2"	3/4"	1"
18"	1/2"	3/4"	1"
21"	1/2"	3/4"	1"
24"	3/4"	1"	1-1/4"
27"	3/4"	1"	1-1/4"
30"	3/4"	1"	1-1/4"
33"	3/4"	1"	1-1/4"
36"	3/4"	1"	1-1/4"
39"	1"	1-1/4"	1-1/4"
42"	1"	1-1/4"	1-1/2"
45"	1"	1-1/4"	1-1/2"
48"	1"	1-1/4"	1-1/2"
54"	1-1/4"	1-1/2"	1-3/4"
60"	1-1/4"	1-1/2"	1-3/4"
66"	1-1/4"	1-1/2"	1-3/4"
72"	1-1/4"	1-1/2"	2"
78"	1-1/4"	1-1/2"	2"
84"	1-1/2"	1-3/4"	2"
90"	1-1/2"	1-3/4"	2"
96"	1-1/2"	1-3/4"	2"
102"	1-1/2"	2"	2"
108"	1-1/2"	2"	2"

VERTICAL JOINTS

	RECOMMENDED SIZES		
ID OF STRUCTURE	1/64" TO 1/4**	5/16" TO 1/2**	9/16" TO 11/16**
42"	3/4"	1"	1-1/4"
48"	3/4"	1"	1-1/4"
54"	1"	1"	1-1/2"
60"	1"	1-1/2"	1-1/2"
66"	1"	1-1/2"	1-1/2"
72"	1"	1-1/2"	1-1/2"
84"	1"	1-1/2"	1-3/4"
96"	1"	1-1/2"	1-3/4"

*The annular space of the joint is calculated by subtracting the tongue O.D. from the bell I.D. and dividing by 2.



BUTYL-LOK WRAP

BUTYL-LOK WRAP is an extruded Butyl adhesive tape, designed to provide high strength, watertight seals on properly primed concrete surfaces and joints of any kind. The Butyl compound is soft, tacky and bonded to either a Plastic backing of an E.P.D.M. Rubber backing. Both kinds of tape are wound in rolls on a release liner for easy application.

SUGGESTED APPLICATIONS FOR BUTYL-LOK WRAP

Any external concrete joints:

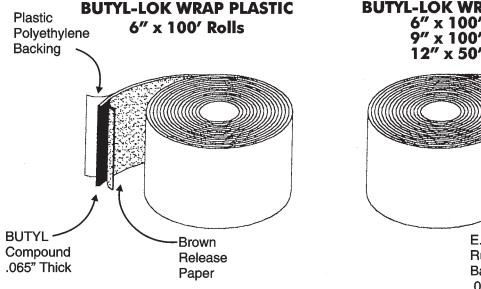
Manhole Joints
Round Pipe Joints
Box Culvert Joints
Elliptical Pipe Joints
Arch Pipe Joints
Septic Joints
Burial Vault Joints
Grade Ring Joints

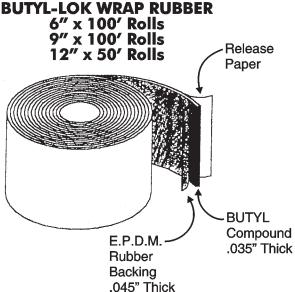
- Concrete Bridge Spans
- New construction, repair or rehabilitation
- Seals vacuum test leaks
- Protective pipe wrap in corrosive conditions

ADVANTAGES OF BUTYL-LOK WRAP

- Prevents or stops infiltration
- Economical sealing solution
- · Easy application
- Excellent initial adhesion and strength
- Withstands constant stress at elevated temperatures
- Excellent protection against corrosion
- · Readily available

AVAILABLE IN THE FOLLOWING SIZES:





BUTYL-LOK WRAP is designed to be used with No. 4 primer, and should not be stretched during installation.



R-900 Rubber Adhesive/Sealant Product Data Sheet

Description:

R-900 is a uniquely formulated one-part butyl adhesive/sealant designed to have excellent resistance to environmental temperature extremes and acid / alkaline conditions.

R-900 forms a permanent flexible bond to a wide variety of substrates including brick, concrete, metals, and plastics. It skins over very rapidly through solvent release and cures to a tape-like consistency.

R-900 is approved to General Motors Engineering Standard 9985950.

Features
Excellent Moisture Resistance
Resistant to Most Acidic Solutions
Resistant to Most Alkaline Solutions
Will Not Attack Polystyrene Foam

Packaging:

11 ounce cartridges, 5 gallon pails or 55 gallon drums

Instructions:

Apply with a standard caulking gun from tubes or trowel on as needed from pails.

Limitations:

All surfaces to be sealed or bonded must be clean and dry. Primer may be required for certain surfaces.

Clean-Up:

Use Mineral Spirits or VM&P Naphtha.

Technical Data					
Physical Properties:					
	Typical Values	Test Method			
Color	Black	Visual			
Specific Gravity	1.16	ASTM D 1475			
Weight per Gallon	9.7 lbs.	ASTM D 1475			
Solids Content	75.0%	ASTM C 681			
Sag or Flow	0.05" maximum	ASTM D 2202			
Press-Flow Viscosity	55 seconds	ASTM D 2452			
Flash Point	52°F (11°C)	ASTM D 56			
VOC Content	314 grams/liter	ASTM D 3960			
Shear Strength	25 psi	ASTM D 1002			
Tensile Strength	25 psi	ASTM D 638			
Elongation	140%	ASTM D 638			
Shore A Hardness	8 – 12	ASTM C 661			
Shore OO Hardness	50 – 55	ASTM C 661			
Resistance to 5%	Excellent – no	ASTM D 545			
Nitric, Sulfuric and	effect after 30 day				
Hydrochloric Acid	immersion				
Application Properties	Application Properties:				
Service Temperature	-40°F to +250°F	ASTM D 3359			
Application Temp.:	20°F to 120°F	ASTM C 603			
Storage Temperature:	65°F to 110°F	ASTM D 1337			
Shelf Life:	1 year minimum	ASTM D 1337			
NOTE: The foregoing information is published as general					

Health & Safety:

product specification.

Users must follow individual product data sheet and Material Safety Data Sheets (M.S.D.S.) for health and safety precautions. Always use protective eyewear.

information only. The listed properties and performance

characteristics are approximate values and are not part of the

Availability/Cost:

Availability and cost can be obtained from your local ADCO Products, Inc. representative or ADCO distributor.

R-900 1/06

ADCO Products, Inc., 4401 Page Avenue, Michigan Center, MI 49254 Phone: 800-248-4010 or 517-764-0334 Fax: 517-764-6697 www.adcocorp.com

LIMITED WARRANTY: ADCO Products, Inc. ("ADCO") warrants its products to meet its published physical properties at the time of sale when tested according to ADCO's standards. If a product is proven to be defective, ADCO will, at its option, replace the defective product or refund the purchase price. ADCO shall not be liable for damages in excess of the purchase price. Any and all claims that a product is defective must be made in writing within thirty (30) days after discovery of the defect and in no event more than one (1) year after the original shipment of the product by ADCO. Failure to notify ADCO of any claim constitutes an irrevocable waiver of such claim regardless of the circumstances. THIS LIMITED WARRANTY IS THE USER'S SOLE AND EXCLUSIVE REMEDY (AND THE SOLE AND EXCLUSIVE LIABILITY OF ADCO) AND IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, WRITTEN OR ORAL, STATUTORY, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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#ADCO

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material nameR-900Revision date08-18-2011

Version # 01

CAS # Mixture

Product use Adhesive.

Manufacturer/Supplier ADCO Products

4401 Page Ave, P.O. Box 457 Michigan Center, MI 49254

US

General Information: 517-764-0334

Emergency 24-Hour Emergency: Chemtrec 1-800-424-9300

2. Hazards Identification

Physical state Solid.

Appearance Black paste.

Emergency overview WARNING

Flammable solid.

Causes skin and eye irritation. In high concentrations, vapors may be irritating to the respiratory

system.

OSHA regulatory status

This product is hazardous according to OSHA 29 CFR 1910.1200.

Potential health effects

Eyes Causes eye irritation.

Skin Causes skin irritation.

InhalationIn high concentrations, vapors may be irritating to the respiratory system.IngestionNo harmful effects expected in amounts likely to be ingested by accident.

Target organs Eyes. Skin. Lung.

Potential environmental effects Not expected to be harmful to aquatic organisms.

3. Composition / Information on Ingredients

CAS#	Percent
64742-89-8	20 - 40
1332-58-7	<25
1333-86-4	<10
7631-86-9	<10
14807-96-6	<10
14808-60-7	<1
13463-67-7	<0.5
	64742-89-8 1332-58-7 1333-86-4 7631-86-9 14807-96-6 14808-60-7

Composition commentsAny pigments or fillers in this product which may be considered "Hazardous" are potentially

hazardous only if inhaled as an air-borne dust. Exposure by these ingredients as used in sealants,

putties, bedding compounds and other non-sprayable products is highly unlikely.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

4. First Aid Measures

First aid procedures

Eye contact Any material that contacts the eye should be washed out immediately with water. If easy to do,

remove contact lenses. Get medical attention promptly if symptoms occur after washing.

R-900 CPH MSDS NA

Skin contact Wash off with soap and plenty of water. Get medical attention promptly if symptoms occur after

washing.

Inhalation If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Ingestion Seek medical advice.

5. Fire Fighting Measures

Flammable properties Flammable solid.

Extinguishing media

Suitable extinguishing

media

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Fire fighting equipment/instructions Self-contained breathing apparatus operated in positive pressure mode and full protective clothing

must be worn in case of fire.

Specific methods **Hazardous combustion** Use water spray to cool unopened containers. Carbon oxides. Silicon oxides. Nitrogen oxides.

products

6. Accidental Release Measures

Personal precautions Wear appropriate personal protective equipment (See Section 8).

Methods for cleaning up Eliminate all ignition sources. Absorb spill with vermiculite or other inert material, then place in a

container for chemical waste.

Large Spills: Flush area with water. Prevent runoff from entering drains, sewers, or streams. Dike

for later disposal.

7. Handling and Storage

Handling Keep away from heat, sparks and open flame. Wear appropriate personal protective equipment

(See Section 8).

Storage Keep away from heat, sparks, and flame. Keep container tightly closed in a cool, well-ventilated

place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Carbon black (1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Kaolin (1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Quartz (14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Talc (14807-96-6)	TWA	2 mg/m3	Respirable fraction.
Titanium dioxide	TWA	10 mg/m3	
(13463-67-7)			

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Carbon black (1333-86-4)	PEL	3.5 mg/m3	
Kaolin (1332-58-7)	PEL	15 mg/m3	Total dust.
		5 mg/m3	Respirable fraction.
Titanium dioxide (13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910.1000)			
•	_		_

Components	Type	Value	Form	
Quartz (14808-60-7)	TWA	0.1 mg/m3	Respirable.	
,		0.3 mg/m3	Total dust.	
		2.4 mppcf	Respirable.	
Silicon dioxide (7631-86-9)	TWA	0.8 mg/m3	•	
,		20 mppcf		
Talc (14807-96-6)	TWA	0.1 mg/m3	Respirable.	
,		0.3 mg/m3	Total dust.	
		2.4 mppcf	Respirable.	
		20 mppcf	•	

R-900 CPH MSDS NA

Components	Туре	Value	Form
Carbon black (1333-86-4)	TWA	3.5 mg/m3	
Kaolin (1332-58-7)	TWA	2 mg/m3	Respirable.
Quartz (14808-60-7)	TWA	0.025 mg/m3	Respirable particles.
Talc (14807-96-6)	TWA	2 mg/m3	Respirable particles.
Titanium dioxide (13463-67-7)	TWA	10 mg/m3	
Canada. British Columbia C Safety Regulation 296/97, as	ELs. (Occupational Exposure Limits samended)	for Chemical Substances, Oc	ccupational Health and
Components	Туре	Value	Form
Carbon black (1333-86-4)	TWA	3.5 mg/m3	
Kaolin (1332-58-7)	TWA	2 mg/m3	Respirable.
Quartz (14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Silicon dioxide (7631-86-9)	TWA	1.5 mg/m3	Respirable.
		4 mg/m3	Total
Talc (14807-96-6)	TWA	2 mg/m3	Respirable.
Titanium dioxide	TWA	10 mg/m3	Total dust.
(13463-67-7)	IWA	10 mg/ms	Total dust.
		3 mg/m3	Respirable fraction.
	nistry of Labor - Control of Exposure		•
Components	Туре	Value	Form
Carbon black (1333-86-4)	TWA	3.5 mg/m3	
Kaolin (1332-58-7)	TWA	2 mg/m3	Respirable.
Quartz (14808-60-7)	TWA	0.1 mg/m3	Respirable fraction.
Silicon dioxide (7631-86-9)	TWA	10 mg/m3	·
Talc (14807-96-6)	TWA	2 mg/m3	Respirable.
		2 ppm	
Titanium dioxide (13463-67-7)	TWA	10 mg/m3	Total dust.
	nistry of Labor - Regulation Respect Type	ing the Quality of the Work En Value	vironment) Form
Carbon black (1333-86-4)	TWA	3.5 mg/m3	
,			Danninghla dust
Kaolin (1332-58-7)	TWA	5 mg/m3	Respirable dust.
Quartz (14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
Silicon dioxide (7631-86-9)	TWA	6 mg/m3	Respirable dust.
Talc (14807-96-6)	TWA	3 mg/m3	Respirable dust.
Titanium dioxide (13463-67-7)	TWA	10 mg/m3	Total dust.
Mexico. Occupational Expo	sure I imit Values		
Components	Type	Value	
Carbon black (1333-86-4)	TWA	3.5 mg/m3	
	STEL	7 mg/m3	
Kaolin (1332 50 7)			
Kaolin (1332-58-7)	TWA	10 mg/m3	
Overt- (44000 00 7)	STEL	20 mg/m3	
Quartz (14808-60-7)	TWA	0.1 mg/m3	
Talc (14807-96-6)	TWA	2 fibers/cm3	
Titanium dioxide	TWA	10 mg/m3	
(13463-67-7)			
	STEL	20 mg/m3	
ineering controls	Ensure adequate ventilation, especia	Illy in confined areas.	
sonal protective equipment			
Eye / face protection	Wear safety glasses with side shields	s (or goggles). Wear a full-face r	espirator, if needed.
Skin protection	Wear chemical-resistant gloves, foot Contact glove manufacturer for spec		propriate for risk of expos
Respiratory protection	If engineering controls do not mainta limits (where applicable) or to an acc been established), an approved resp respirators are used, a program shot 1910.134. Respirator type: Air-purifying	in airborne concentrations below eptable level (in countries where irator must be worn. In the Unite ild be instituted to assure compl	e exposure limits have no ed States of America, if iance with OSHA 29 CFF

R-900 CPH MSDS NA

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance Black paste.

Color Black.

Odor Solvent odor.
Odor threshold Not available.

Physical stateSolid.FormPaste.

pH Not available.Melting point Not available.Freezing point Not available.

 Boiling point
 240 - 285 °F (115.6 - 140.6 °C)

 Flash point
 48 °F (8.9 °C) Tag Closed Cup

Evaporation rate 9.2 (n-butyl acetate = 1)

Flammability limits in air, upper, Not available.

% by volume

Flammability limits in air, lower, 0.9 %

% by volume

Vapor pressure 45 mm Hg at 78°F, 26°C

Vapor density 3.8
Specific gravity 1.22
Solubility (water) 0.5 %

Partition coefficient No data available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

VOC 3.99 lb/gal

Percent volatile 30 (Maximum)

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions. **Conditions to avoid** Keep away from heat, sparks, and flame.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Acute effects Causes skin and eye irritation. In high concentrations, vapors may be irritating to the respiratory

system.

Sensitization No sensitizing effects known.

Carcinogenicity Due to the form of the product, exposure to the potentially carcinogenic components is not

expected.

ACGIH Carcinogens

Carbon black (CAS 1333-86-4)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

Kaolin (CAS 1332-58-7)

A4 Not classifiable as a human carcinogen.

Quartz (CAS 14808-60-7) A2 Suspected human carcinogen.

Talc (CAS 14807-96-6) A4 Not classifiable as a human carcinogen.

Titanium dioxide (CAS 13463-67-7) A4 Not classifiable as a human carcinogen.

R-900 CPH MSDS NA

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

Quartz (CAS 14808-60-7) 1 Carcinogenic to humans.

Silicon dioxide (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

Talc (CAS 14807-96-6) 2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

US NTP Report on Carcinogens: Known carcinogen

Quartz (CAS 14808-60-7) Known carcinogen.

12. Ecological Information

Ecotoxicity Not expected to be harmful to aquatic organisms.

Persistence and degradability

No data available.

Bioaccumulation /

No data available.

Accumulation

Partition coefficient No data available.

(n-octanol/water)

media

Mobility in environmental No data available.

13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 °F

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal instructions**

When this product as supplied is to be discarded as waste, it may meet the definition of a RCRA

waste under 40 CFR 261.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

DOT

Basic shipping requirements:

UN1133 UN number

Proper shipping name Adhesives, containing a flammable liquid

Hazard class 3 Ш Packing group Labels required 3

Additional information:

Special provisions 149, B52, IB2, T4, TP1, TP8

Packaging exceptions 150 Packaging non bulk 173 242 Packaging bulk

IATA

Basic shipping requirements:

UN number 1133

Adhesives containing flammable liquid Proper shipping name

3 **Hazard class** Ш Packing group Additional information:

ERG code 3L

IMDG

Basic shipping requirements:

UN number

Proper shipping name ADHESIVES containing flammable liquid

3 **Hazard class** Ш Packing group EmS No. F-E, S-D

R-900 CPH MSDS NA Basic shipping requirements:

Proper shipping name ADHESIVES containing flammable liquid

Hazard class 3
UN number UN1133
Packing group II

15. Regulatory Information

US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely No

hazardous substance (40 CRF 355, Appendix A)

Section 311/312 (40 CFR Yes

370)

Drug Enforcement Not controlled

Administration (DEA) (21 CFR

1308.11-15)

WHMIS status Controlled

WHMIS classification B4 - Flammable/Combustible

D2B - Other Toxic Effects-TOXIC

Inventory name

WHMIS labeling





United States & Puerto Rico

State regulations

Country(s) or region

Inventory status

Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

US - California Hazardous Substances (Director's): Listed substance

Carbon black (CAS 1333-86-4)
Silicon dioxide (CAS 7631-86-9)
Listed.
Talc (CAS 14807-96-6)
Listed.

R-900 CPH MSDS NA

WARNING: This product contains chemicals known to the State of California to cause cancer.

Yes

On inventory (yes/no)*

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Carbon black (CAS 1333-86-4)
Isoprene (CAS 78-79-5)
Listed.
Quartz (CAS 14808-60-7)
Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon black (CAS 1333-86-4)
Listed: February 21, 2003 Carcinogenic.

Isoprene (CAS 78-79-5)
Listed: May 1, 1996 Carcinogenic.

Quartz (CAS 14808-60-7)
Listed: October 1, 1988 Carcinogenic.

US - Massachusetts RTK - Substance: Listed substance

 Carbon black (CAS 1333-86-4)
 Listed.

 Kaolin (CAS 1332-58-7)
 Listed.

 Quartz (CAS 14808-60-7)
 Listed.

 Silicon dioxide (CAS 7631-86-9)
 Listed.

 Talc (CAS 14807-96-6)
 Listed.

 Titanium dioxide (CAS 13463-67-7)
 Listed.

US - New Jersey RTK - Substances: Listed substance

 Carbon black (CAS 1333-86-4)
 Listed.

 Kaolin (CAS 1332-58-7)
 Listed.

 Quartz (CAS 14808-60-7)
 Listed.

 Silicon dioxide (CAS 7631-86-9)
 Listed.

 Talc (CAS 14807-96-6)
 Listed.

 Titanium dioxide (CAS 13463-67-7)
 Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

 Carbon black (CAS 1333-86-4)
 Listed.

 Kaolin (CAS 1332-58-7)
 Listed.

 Quartz (CAS 14808-60-7)
 Listed.

 Silicon dioxide (CAS 7631-86-9)
 Listed.

 Talc (CAS 14807-96-6)
 Listed.

 Titanium dioxide (CAS 13463-67-7)
 Listed.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 2*

Flammability: 3 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 3

DisclaimerTo the best of our knowledge, the information contained herein is accurate. However, neither the

above named supplier nor any of its subsidiaries assumes any liability whatsoever for

completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these

are the only hazards that exist.

Issue date 08-18-2011



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name LS-600W Edge Sealant

Version # 02

 Issue date
 07-12-2011

 Revision date
 09-20-2012

 Supersedes date
 08-29-2012

 CAS #
 Mixture

 Product use
 Adhesive.

Manufacturer/Supplier ADCO Products

4401 Page Ave, P.O. Box 457 Michigan Center, MI 49254

US

General Information: 517-764-0334

Emergency 24-Hour Emergency: Chemtrec 1-800-424-9300

2. Hazards Identification

Physical state Solid.

Appearance White paste.
Emergency overview WARNING

Flammable solid.

Causes skin and eye irritation. In high concentrations, vapors may be irritating to the respiratory

system.

OSHA regulatory status

This product is hazardous according to OSHA 29 CFR 1910.1200.

Potential health effects

Eyes Causes eye irritation.

Skin Causes skin irritation.

InhalationIn high concentrations, vapors may be irritating to the respiratory system.IngestionNo harmful effects expected in amounts likely to be ingested by accident.

Target organs Eyes. Skin. Lung.

Potential environmental effects Not expected to be harmful to aquatic organisms.

3. Composition / Information on Ingredients

Components	CAS#	Percent
Solvent naphtha (petroleum), light aliph.	64742-89-8	30-60
Limestone	1317-65-3	10-30
Aluminium hydroxide	21645-51-2	1-5
Silicon dioxide	7631-86-9	1-5
Titanium dioxide	13463-67-7	1-5
Quartz	14808-60-7	0.1-1
Rosin	8050-09-7	0.1-1

Composition comments Any pigments or fillers in this product which may be considered "Hazardous" are potentially

hazardous only if inhaled as an air-borne dust. Exposure by these ingredients as used in sealants,

putties, bedding compounds and other non-sprayable products is highly unlikely.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

LS-600W Edge Sealant CPH MSDS NA

4. First Aid Measures

First aid procedures

Eye contact Any material that contacts the eye should be washed out immediately with water. If easy to do,

remove contact lenses. Get medical attention promptly if symptoms occur after washing.

Skin contact Wash off with soap and plenty of water. Get medical attention promptly if symptoms occur after

washing.

Inhalation If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Ingestion Seek medical advice.

5. Fire Fighting Measures

Flammable properties Flammable solid.

Extinguishing media

Suitable extinguishing

media

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Fire fighting equipment/instructions

g Self-contained breathing apparatus operated in positive pressure mode and full protective clothing must be worn in case of fire.

Specific methodsUse water spray to cool unopened containers. Move container from fire area if it can be done

without risk.

Hazardous combustion

products

Carbon oxides. Silicon oxides. Nitrogen oxides.

6. Accidental Release Measures

Personal precautions Wear appropriate personal protective equipment (See Section 8).

Methods for cleaning up Eliminate all ignition sources. Absorb spill with vermiculite or other inert material, then place in a

container for chemical waste.

Large Spills: Flush area with water. Prevent runoff from entering drains, sewers, or streams. Dike

20 mppcf

for later disposal.

7. Handling and Storage

Handling Keep away from heat, sparks and open flame. Wear appropriate personal protective equipment

(See Section 8).

Storage Keep away from heat, sparks, and flame. Keep container tightly closed in a cool, well-ventilated

place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form	
Aluminium hydroxide (CAS	TWA	1 mg/m3	Respirable fraction.	
21645-51-2)				

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Limestone (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	
Silicon dioxide (CAS	TWA	0.8 mg/m3	
7631-86-9)			

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
Limestone (CAS 1317-65-3)	TWA	10 mg/m3	

LS-600W Edge Sealant CPH MSDS NA

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
Aluminium hydroxide (CAS 21645-51-2)	TWA	1 mg/m3	Respirable.
Limestone (CAS 1317-65-3)	STEL	20 mg/m3	Total dust.
	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
Silicon dioxide (CAS 7631-86-9)	TWA	4 mg/m3	Total
,		1.5 ma/m3	Respirable.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	Form
Aluminium hydroxide (CAS 21645-51-2)	TWA	1 mg/m3	Respirable fraction.
Silicon dioxide (CAS 7631-86-9)	TWA	10 mg/m3	

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Туре	Value	Form
Limestone (CAS 1317-65-3)	TWA	10 mg/m3	Total dust.
Rosin (CAS 8050-09-7)	TWA	0.1 mg/m3	
Silicon dioxide (CAS 7631-86-9)	TWA	6 mg/m3	Respirable dust.

Mexico. Occupational Exposure Limit Values

Components	Туре	Value	
Limestone (CAS 1317-65-3)	STEL	20 mg/m3	
	TWA	10 mg/m3	
Rosin (CAS 8050-09-7)	TWA	0.1 mg/m3	

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection Wear safety glasses with side shields (or goggles). Wear a full-face respirator, if needed.

Skin protection Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure.

Contact glove manufacturer for specific information.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, government approved

(where applicable), air-purifying filter, cartridge or canister.

General hygiene Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective considerations

equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance White paste.

Physical state Solid. **Form** Paste. Color White

Odor Petroleum solvent. **Odor threshold** Not available. Not available. Ηq

2 mm Hg at 78°F, 26°C Vapor pressure

Vapor density 3.8

220 °F (104.4 °C) **Boiling point** Melting point/Freezing point Not available.

CPH MSDS NA LS-600W Edge Sealant 3/7

Solubility (water) Negligible Specific gravity 1.04

Flash point 65 °F (18.3 °C)

Flammability limits in air, upper, % by volume

6.7

Flammability limits in air,

0.9 %

lower, % by volume

Auto-ignition temperature Not available.

Evaporation rate < 1 (n-butyl acetate = 1)

Percent volatile 40

Partition coefficient No data available.

(n-octanol/water)

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions. **Conditions to avoid** Keep away from heat, sparks, and flame.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

Possibility of hazardous Will not occur.

reactions

11. Toxicological Information

Toxicological data

Components Species Test Results

Aluminium hydroxide (CAS 21645-51-2)

Acute

Oral

LD50 Rat > 5000 mg/kg

Silicon dioxide (CAS 7631-86-9)

Acute

Oral

LD50 Mouse > 15000 mg/kg

Rat > 22500 mg/kg

Sensitization No sensitizing effects known.

ACGIH Sensitizer

Rosin (CAS 8050-09-7) Sensitizer.

Acute effectsCauses skin and eye irritation. In high concentrations, vapors may be irritating to the respiratory

system.

Carcinogenicity Due to the form of the product, exposure to the potentially carcinogenic components is not

expected.

ACGIH Carcinogens

Aluminium hydroxide (CAS 21645-51-2)

A4 Not classifiable as a human carcinogen.

Quartz (CAS 14808-60-7) A2 Suspected human carcinogen.

Titanium dioxide (CAS 13463-67-7)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Quartz (CAS 14808-60-7) 1 Carcinogenic to humans.

Silicon dioxide (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

US NTP Report on Carcinogens: Known carcinogen

Quartz (CAS 14808-60-7) Known To Be Human Carcinogen.

LS-600W Edge Sealant CPH MSDS NA

4/7

12. Ecological Information

Ecotoxicological data

Components Species Test Results

Rosin (CAS 8050-09-7)

Aquatic

Crustacea EC50 Daphnia 4.5 mg/l, 48 Hours

Ecotoxicity Not expected to be harmful to aquatic organisms.

Persistence and degradability No data available.

Bioaccumulation / No data available.

Accumulation

Partition coefficient No data available.

Mobility in environmental No data available.

media

13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 °F

Disposal instructionsDispose of contents/container in accordance with local/regional/national/international regulations.

When this product as supplied is to be discarded as waste, it may meet the definition of a RCRA

waste under 40 CFR 261.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

DOT

Basic shipping requirements:

UN number UN1133
Proper shipping name Adhesives

Hazard class 3
Packing group II

Additional information:

Special provisions 149, B52, IB2, T4, TP1, TP8

Packaging exceptions150Packaging non bulk173Packaging bulk242

IATA

UN number UN1133 UN proper shipping name Adhesives

Transport hazard class(es) 3
Packing group II
ERG code 3L

IMDG

UN number UN1133 UN proper shipping name ADHESIVES

Transport hazard class(es) 3
Packing group II
EmS No. F-E, S-D

TDG

Proper shipping name ADHESIVES

Hazard class 3
UN number UN1133
Packing group II

15. Regulatory Information

US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

LS-600W Edge Sealant CPH MSDS NA

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

> Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely

hazardous substance (40 CFR 355, Appendix A) Section 311/312 (40 CFR

Yes

No

370)

Drug Enforcement

Not controlled

Administration (DEA) (21 CFR

1308.11-15)

WHMIS status Controlled

WHMIS classification B4 - Flammable Solids

D2B - Other Toxic Effects-TOXIC

WHMIS labeling





United States & Puerto Rico

Inventory status

Country(s) or region Inventory name On inventory (yes/no)* Canada Domestic Substances List (DSL) No

Canada Non-Domestic Substances List (NDSL) Yes

Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

State regulations WARNING: This product contains chemicals known to the State of California to cause cancer.

US - California Hazardous Substances (Director's): Listed substance

Rosin (CAS 8050-09-7) Listed Silicon dioxide (CAS 7631-86-9) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Quartz (CAS 14808-60-7) Listed. Titanium dioxide (CAS 13463-67-7) Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz (CAS 14808-60-7) Listed: October 1, 1988 Carcinogenic. Titanium dioxide (CAS 13463-67-7) Listed: September 2, 2011 Carcinogenic.

US - New Jersey RTK - Substances: Listed substance

Limestone (CAS 1317-65-3) Listed. Quartz (CAS 14808-60-7) Listed. Silicon dioxide (CAS 7631-86-9) Listed. Titanium dioxide (CAS 13463-67-7) Listed.

US. Massachusetts RTK - Substance List

Limestone (CAS 1317-65-3) Listed. Quartz (CAS 14808-60-7) Listed. Silicon dioxide (CAS 7631-86-9) Listed. Titanium dioxide (CAS 13463-67-7) Listed.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Limestone (CAS 1317-65-3) Listed. Quartz (CAS 14808-60-7) Listed. Rosin (CAS 8050-09-7) Listed.

LS-600W Edge Sealant **CPH MSDS NA**

903254 Version #: 02 Yes

Silicon dioxide (CAS 7631-86-9) Listed. Titanium dioxide (CAS 13463-67-7) Listed.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 2

Flammability: 3 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 3 Instability: 0

DisclaimerTo the best of our knowledge, the information contained herein is accurate. However, neither the

above named supplier nor any of its subsidiaries assumes any liability whatsoever for

completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these

are the only hazards that exist.

LS-600W Edge Sealant CPH MSDS NA