

# SAFETY DATA SHEET

DATE ISSUED: 6/30/2023  
SDS REF. NO: BPI System RS Component B  
SDS REV NO: 1.2



1. PRODUCT AND COMPANY IDENTIFICATION	
PRODUCT TRADE NAME:	System RS (Component B)
PRODUCT USE:	Spray applied polyurethane foam
MANUFACTURER	Burtin Polymer Innovations 130 E George St Adairsville, GA 30103 678-800-7003
24 HR EMERGENCY TELEPHONE NUMBER	
CHEMTEC (US Transportation):	800-424-9300
CHEMTEC (International Transportation):	202-483-7616

2. HAZARDS AND IDENTIFICATION	
GHS Ratings:	Skin corrosive 2 Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation Eye corrosive 2A Eye irritant: Subcategory 2A, Reversible in 21 days
GHS Hazards:	H315 Causes skin irritation H319 Causes serious eye irritation
GHS Precautions:	P264 Wash hands thoroughly after handling P280 Wear protective gloves/protective clothing/eye protection/face protection P321 Specific treatment is urgent (see Section 4 First Aid measures) P362 Take off contaminated clothing and wash before reuse P302+P352 IF ON SKIN: Wash with soap and water P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing P332+P313 If skin irritation occurs: Get medical advice/attention P337+P313 Get medical advice/attention
Signal Word:	Warning

### 3. Composition/Data on Components

Chemical Name	CAS number	Weight Concentration %
Glycerol poly(oxyethylene) poly(oxypropylene) ether	9082-00-2	30.00% - 40.00%
Bis(2-dimethylaminoethyl) ether	3033-62-3	1.00% - 5.00%
1-Propene, 1-chloro-3,3,3-trifluoro-, (1E)-	102687-65-0	0% - 12%

**Co-Blown with Solstice LBA**

### 4. FIRST AID MEASURES

<b>EYES:</b>	Rinse opened eye for at least 15 minutes under running water. Remove contact lenses if present and easy to do so, and continue rinsing. If irritation persists contact Physician
<b>SKIN:</b>	Clean affected area with soap and plenty of water.
<b>INHALATION:</b>	If inhaled and symptoms ensue, move to fresh air. If breathing is difficult, give oxygen.
<b>SWALLOWING:</b>	Consult physician.
<b>NOTES TO PHYSICIAN:</b>	Treat symptomatically

### 5. FIRE FIGHTING MEASURES

<b>FLASH POINT:</b>	192 C (378 F)
<b>SUITABLE EXTINGUISHING AGENTS:</b>	Water spray, CO2, Foam, Dry chemical
<b>Information about Protection against Explosions and Fires:</b>	Closed containers may rupture when exposed to extreme heat.
<b>Dangerous Products of Decomposition:</b>	Oxides of carbon, oxides of nitrogen
<b>Protective Equipment:</b>	Firefighters should wear a pressure demand self-contained breathing apparatus and protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Person-Related Safety Precautions:</b>	Avoid contact with skin and eyes.
<b>Measures for Environmental Protection:</b>	Cover and contain spill with absorbent material. Collect for proper disposal according to local, state, and federal regulations.

### 7. HANDLING AND STORAGE

<b>Information for Safe Handling:</b>	Avoid contact with skin or inhalation.
<b>Storage Requirements:</b>	Store in dry, well ventilated area. Keep containers tightly closed. Store between 60°F-100°F. Material may settle.

### 8. EXPOSURE CONTROLS\PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Glycerol poly(oxyethylene) poly(oxypropylene) ether 9082-00-2	Not Established	Not Established	Not Established
Bis(2-dimethylaminoethyl) ether 3033-62-3	Not Established	0.15 ppm STEL 0.05 ppm TWA	Not Established
1-Propene, 1-chloro-3,3,3-trifluoro-, (1E)- 102687-65-0	Not Established	Not Established	Not Established

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<b>Engineering Controls:</b>	No specific measures required.
<b>General Protective and Hygienic Measures:</b>	Usual precautionary measures should be adhered to when handling chemicals.
<b>Respiratory protection:</b>	None required if work area is properly ventilated.
<b>Hand Protection:</b>	Protective chemical resistant gloves.
<b>Eye Protection:</b>	Safety glasses.
<b>Body Protection:</b>	Protective work clothing. Launder separately.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL STATE:</b>	Clear liquid
<b>ODOR:</b>	Mild
<b>ODOR THRESHOLD:</b>	N/A
<b>pH:</b>	N/A
<b>MELTING POINT:</b>	N/A
<b>BOILING POINT:</b>	80° C
<b>FLASH POINT AND METHOD:</b>	378 F, 192 C
<b>EVAPORATION RATE:</b>	N/A
<b>FLAMMABILITY(Solid/Gas):</b>	N/A
<b>FLAMMABLE LIMITS:</b>	N/A TO N/A
<b>VAPOUR PRESSURE:</b>	N/A
<b>VAPOUR DENSITY:</b>	N/A
<b>SPECIFIC GRAVITY:</b>	Average 1.10
<b>% SOLUBILITY IN WATER:</b>	%
<b>EXPLOSION RATE:</b>	N/A
<b>OCTANOL/WATER PARTITION COEFFICIENT:</b>	N/A
<b>AUTO-IGNITION TEMPERATURE:</b>	N/A
<b>DECOMPOSITION TEMPERATURE:</b>	N/A

## 10. STABILITY AND REACTIVITY

<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Avoid contact with isocyanates and strong oxidizing agents .
<b>INCOMPATIBLE MATERIALS:</b>	Not expected to occur.
<b>PRODUCT DECOMPOSITION:</b>	Oxides of carbon, oxides of nitrogen

## 11. TOXICOLOGICAL INFORMATION

<b>Mixture Toxicity</b>	
<b>Component Toxicity</b>	
3033-62-3	Bis(2-dimethylaminoethyl) ether Oral LD50: 910 mg/kg (Rat) Dermal LD50: 238 mg/kg (Rabbit) Inhalation LC50: 117 ppm (Rat)
<b>Toxicity Values Listed if Known</b>	
<b>Acute Toxicity:</b>	
<b>Eyes:</b>	Irritating to eyes
<b>Oral LD50:</b>	910 mg/kg (Rat)
<b>Dermal LD50:</b>	238 mg/kg (Rabbit)
<b>Inhalation LC50:</b>	117 ppm (Rat)
<b>Skin:</b>	Harmful in contact with skin
<b>Inhalation:</b>	Not expected to be a route of exposure
<b>Ingestion:</b>	Harmful if swallowed. Consult physician
<b>Chronic Effects</b>	Possible harmful target organ effects
<b>Routes of Entry</b>	Ingestion, skin contact, eye contact
<b>Target Organs</b>	Skin, Eyes

<b>Mixture Toxicity</b>	
<b>Component Toxicity</b>	
102687-65-0	1-Propene, 1-chloro-3,3,3-trifluoro-, (1E)-
<b>Toxicity Values Listed if Known</b>	
Acute toxicity	No Information
Skin corrosion/irritation	No Information
Serious eye damage/irritation	No Information
Respiratory/skin sensitization	No Information
Germ cell mutagenicity	No Information
Carcinogenicity	No Information
Reproductive toxicity	No Information
STOT-single exposure	No Information
STOT-repeated exposure	NOAEL ( rat , nose exposure , no specific organs ) 10,000ppm
Aspiration hazard	No Information
Chromosomal abbr. test	Negative
Ames	Negative
Chromosome aberration	No Information
Chemicals with Known or Possible Carcinogenic Effects:	CAS Number Description % Weight Carcinogen Rating

**12. ECOLOGICAL INFORMATION**

<b>General Information:</b>	Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13. Individual component ecotoxicity listed if known.
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**13. DISPOSAL CONSIDERATIONS**

<b>Recommendation:</b>	Observe local requirements. Dispose of in accordance with local/state/federal regulations.
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**14. TRANSPORT INFORMATION**

Not considered a dangerous good according to transport regulations unless specifically cited below:	
Agency Proper Shipping Name	UN Number Packing Group Hazard Class

**15. REGULATORY INFORMATION**

<b>Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312</b>	
Acute toxicity (any route of exposure)	
Respiratory or skin sensitization	
Specific target organ toxicity (single or repeated exposure)	
Skin corrosion or irritation	
Serious eye damage or eye irritation	
<b>Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313</b>	
This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372.	
<b>Components</b>	<b>CASRN</b>
Glycerol poly(oxyethylene) poly(oxypropylene) ether	9082-00-2
Bis(2-dimethylaminoethyl) ether	3033-62-3
1-Propene, 1-chloro-3,3,3-trifluoro-, (1E)-	102687-65-0
<b>Pennsylvania Worker and Community Right-To-Know Act:</b>	
To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.	
<b>California Prop. 65</b>	

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**United States TSCA Inventory (TSCA)**

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**16. OTHER INFORMATION**

**Legend**

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
C	Ceiling
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
STEL	Short term exposure limit
TWA	Time weighted average

**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bio accumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bio accumulative

**Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

Burtin Polymer Innovations urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for

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