

Section 1. Identification

GHS Product Identifier : PaveSaver - Part A

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against : No further relevant information available.

Supplier : The D.S. Brown Company
300 East Cherry Street
North Baltimore, Ohio 45872
419-257-3561


In Case of Emergency : Chemtrec 1-800-424-9300 International 01-703-741-5500

Section 2. Hazards Identification

Classification of the Substance or Mixture	: Skin Irrit.	2	H315	Causes skin irritation.
	: Eye Irrit.	2A	H319	Causes serious eye irritation.
	: Skin Sens.	1	H317	May cause an allergic skin reaction.
	: Aquatic Acute	3	H402	Harmful to aquatic life.
	: Aquatic Chronic	3	H412	Harmful to aquatic life with long lasting effects.

LABEL ELEMENTS

GHS Label Elements : The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard Pictograms : 
GHS07

Signal Word : **Warning**

Hazard Determining Components of Labeling : epoxy resin
nonylphenol

Hazard Statements : Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.

Precautionary Statements : Avoid breathing dust/fume/gas/mist/vapors/spray
Avoid release to the environment.
Wear protective gloves/eye protection/face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 2. Hazards Identification *cont'd.*

Classification System

NFPA Ratings (scale 0-4) : Health: 1
Fire: 1
Reactivity: 0

HMIS-Ratings (scale 0-4) : Health: 1
Fire: 1
Reactivity: 0

Other Hazards

Results of PBT and vPvB Assessment : **PBT:** Not applicable.
vPvB: Not applicable.

Section 3. Composition/Information on Ingredients

Chemical Characterization : Substances

CAS No. Description : 25085-99-8 Diglycidyl ether of bisphenol A homopolymer

Identification Numbers

NLP Number : 500-033-5
Index Number : 603-074-00-8

Chemical Characterization : Mixtures

Description : Mixture of the substances listed below with nonhazardous additions.

Dangerous Components

Ingredient Name	CAS No.	%
Diglycidyl ether of bisphenol A homopolymer	25085-99-8	≥10-<90%
2,3-epoxypropyl o-tolyl ether	2210-79-9	≤10.0%
4-nonylphenol, branched	84852-15-3	≥2.5-<5%

Additional Information : For the wording of the listed hazard phrases refer to Section 16.

Section 4. First Aid Measures

- General Information** : Immediately remove any clothing soiled by the product.
In the event of persistent symptoms receive medical treatment.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After Inhalation** : Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.
- After Skin Contact** : Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- After Eye Contact** : Rinse opened eye for several minutes under running water. Then consult a doctor.
- After Swallowing** : Seek medical treatment.

INFORMATION FOR DOCTOR

- Most Important Symptoms/ Effects, Both Acute and Delayed** : No further relevant information available.
- Indication of Any Immediate Medical Attention and Special Treatment Needed** : No further relevant information available.

Section 5. Fire-Fighting Measures

Suitable Extinguishing Agents : Use fire fighting measures that suit the environment.

Special Hazards Arising from the Substance or Mixture : No further relevant information available.

ADVICE FOR FIREFIGHTERS

Protective Equipment : Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures : Wear protective equipment. Keep unprotected persons away.

Section 6. Accidental Release Measures *cont'd.*

- Environmental Precautions** : Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.
- Methods and Materials for Containment and Cleaning Up** : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- Reference to Other Sections** : See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

PROTECTIVE ACTION CRITERIA FOR CHEMICALS

PAC-1		
4-nonylphenol, branched	84852-15-3	3.9 mg/m ³
PAC-2		
4-nonylphenol, branched	84852-15-3	43 mg/m ³
PAC-3		
4-nonylphenol, branched	84852-15-3	260 mg/m ³

Section 7. Handling and Storage

HANDLING

- Precautions for Safe Handling** : Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
- Information About Protection Against Explosions and Fires** : No special measures required.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

- Storage** : cool and dry
- Requirements to Be Met by Storerooms and Receptables** : No special requirements.
- Information About Storage in One Common Storage Facility** : Store away from incompatible materials.
Store away from foodstuffs.
- Further Information About Storage Conditions** : Keep receptacle tightly sealed.
- Specific End Use(s)** : No further relevant information available.

Section 8. Exposure Controls/Personal Protection

Additional Information About Design of Technical Systems : No further data; see item 7.

CONTROL PARAMETERS

Components with Limit Values that Require Monitoring at the Workplace : The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.


Additional Information : The lists that were valid during the creation were used as basis.

EXPOSURE CONTROLS

Personal Protective Equipment

General Protective and Hygienic Measures : Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Breathing Equipment : In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of Hands :  Protective gloves.

The glove material has to be impermeable and resistant to the product, the substance, and the preparation.

Eye Protection : Wear appropriate eye protection to prevent eye contact.

Section 9. Physical and Chemical Properties

Appearance

Form : Liquid

Color : Clear

Odor : Characteristic

Odor Threshold : Not determined.

pH Value : Not determined.

Change in Condition

Melting Point/ Melting Range : Undetermined

Boiling Point/ Boiling Range : 261 °C (501.8 °F)

Flash Point : 155 °C (311 °F)

Section 9. Physical and Chemical Properties *cont'd.*

Flammability (Solid, Gaseous)	: Not applicable.
Ignition Temperature	: 370°C (698°F)
Decomposition Temperature	: Not determined.
Auto Igniting	: Product is not self-igniting.
Danger of Explosion	: Product does not present an explosion hazard.
Explosion limits	
Lower	: Not determined.
Upper	: Not determined.
Vapor Pressure	: Not determined.
Density at 20°C (68°F)	: 1.122 g/cm ³ (9.36309 lbs/gal)
Relative Density	: Not determined.
Vapor Density	: Not determined.
Evaporation Rate	: Not determined.
Solubility in/Miscibility with Water	: Not miscible or difficult to mix.
Partition Coefficient (n-Octanol/Water)	: Not determined.
Viscosity	
Dynamic	: Not determined.
Kinematic	: Not determined.
Solids Content	: 0.0%
Other Information	: No further relevant information available.
Volatile Organic Compounds	: Not determined.

Section 10. Stability and Reactivity

Reactivity	: No decomposition if stored and applied as directed.
Chemical Stability	: No decomposition if stored and applied as directed.
Thermal Decomposition/ Conditions to Be Avoided	: No decomposition if used according to specifications.
Possibility of Hazardous Reactions	: Reacts with acids, alkalis and oxidizing agents.
Conditions to Avoid	: Keep away from heat and sources of ignition.
Incompatible Materials	: No further relevant information available.
Hazardous Decomposition Products	: Carbon monoxide and carbon dioxide Nitrogen oxides

Section 11. Toxicological Information

Acute Toxicity	: LD/LC50 values that are relevant for classification
	25085-99-8, Diglycidyl ether of bisphenol A homopolymer
	Oral LD50 5,000 mg/kg (rat)
	Dermal LD50 20,000 mg/kg (rabbit)
Primary Irritant Effect	
On the Skin	: May cause skin irritation.
On the Eye	: Strong irritant with the danger of severe eye injury. Irritating effect.
Sensitization	: Sensitization possible through skin contact.
Additional Toxicological Information	: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful Irritant

CARCINOGENIC CATEGORIES

IARC (International Agency for Research on Cancer)	: None of the ingredients are listed.
NTP (National Toxicology Program)	: None of the ingredients are listed.
OHSA-Ca (Occupational Safety & Health Administration)	: None of the ingredients are listed.

Section 12. Ecological Information

TOXICITY

Aquatic Toxicity	: No further relevant information available.
Persistence and Degradability	: No further relevant information available.

BEHAVIOR IN ENVIRONMENTAL SYSTEMS

Bioaccumulative Potential	: No further relevant information available.
Mobility in Soil	: No further relevant information available.

ECOTOXICAL EFFECTS

Remark	: Toxic for fish.
General Notes	: Water hazard class 1 (Self-assessment): slightly hazardous for water. Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms.

Section 12. Ecological Information *cont'd.*

ECOTOXICAL EFFECTS

Results of PBT and vPvB Assessment	: PBT: Not applicable.
	: vPvB: Not applicable.
Other Adverse Effects	: No further relevant information available.

Section 13. Disposal Considerations

WASTE TREATMENT METHODS

Recommendation	: Must not be disposed of as normal garbage. Do not allow product to reach sewage system. It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.
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UNCLEANED PACKAGINGS

Recommendation	: Disposal must be made according to federal, state and local regulations.
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Section 14. Transport Information

UN-Number

DOT, ADR, ADN, IATA : Not regulated.

IMDG : UN3082

UN Proper Shipping Name

DOT, ADR, ADN, IATA : Not regulated.

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin), MARINE POLLUTANT

TRANSPORT HAZARD CLASS(ES)

DOT, ADR, IATA	: 
	Class: Not regulated. Label: 9 ADN/R Class: Not regulated.

IMDG	:  
	Class: 9 Miscellaneous dangerous substances and articles Label: 9

Section 14. Transport Information *cont'd.*

PACKING GROUP

DOT, ADR, IMDG, IATA : III

Environmental Hazards : Product contains environmentally hazardous substances: 4- nonylphenol, branched

Marine Pollutant : Yes



Special Precautions for User

EMS Number : F-A, S-F

Stowage Category : A

Transport in Bulk : Not applicable.

According to Annex II of MARPOL73/78 and the IBC Code

TRANSPORT/ADDITIONAL INFORMATION

ADR

U.S. Domestic Ground Shipments : Same as listed for Standard Shipments above.

U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments : Same as listed for Standard Shipments above.

Emergency Response Guide (ERG) Number : Not determined.

IMDG

Limited quantities (LQ) : 5L

Excepted quantities (EQ) : Code E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1,000 ml


UN "Model Regulation" : Not regulated.

Section 15. Regulatory Information

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT

SARA 355 (Extremely Hazardous Substances)	: None of the ingredients are listed.
SARA 313 (Specific Toxic Chemical Listings)	: This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below. 84852-15-3 4-nonylphenol, branched $\geq 2.5 - < 5\%$
TSCA (Toxic Substances Control Act)	: All ingredients are listed.
Proposition 65	: Chemicals known to the State of California (Prop. 65) to cause cancer: None of the ingredients are listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed. Chemicals known to cause developmental toxicity: None of the ingredients are listed.

CANCEROGENICITY CATEGORIES

EPA (Environmental Protection Agency)	: None of the ingredients are listed.
TLV (Threshold Limit Value established by ACGIH)	: None of the ingredients are listed.
MAK (German Maximum Workplace Concentration)	: None of the ingredients are listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	: None of the ingredients are listed.
GHS label elements	: The product is classified and labeled according to the Globally Harmonized System (GHS).
Hazard Pictograms	:  GHS07
Signal Word	: Warning

Section 15. Regulatory Information *cont'd.*

CANCEROGENICITY CATEGORIES *cont'd.*

Hazard-Determining Components of Labeling	: epoxy resin nonylphenol
Hazard Statements	: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary Statements	: Avoid breathing dust/fume/gas/mist/vapors/spray Avoid release to the environment. Wear protective gloves/eye protection/face protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wash contaminated clothing before reuse. Dispose of contents/container in accordance with local/regional/national/international regulations.

NATIONAL REGULATIONS

Water Hazard Class	: Water hazard class 2 (Self-assessment): hazardous for water.
Chemical Safety Assessment	: A chemical safety assessment has not been carried out.

Section 16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of Preparation	: 01/02/2020
Last Revision	: 05/26/2015
Abbreviations and Acronyms	: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

Section 16. Other Information *cont'd.*

Abbreviations and Acronyms : LC50: Lethal concentration, 50 percent
cont'd. LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitization - Skin, Hazard Category 1
Repr. 2: Reproductive toxicity, Hazard Category 2
Aquatic Acute 3: Hazardous to the aquatic environment - Acute Aquatic Hazard,
Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - Long-term Aquatic
Hazard, Category 3