


Section 1. Identification

GHS Product Identifier	: PaveSaver+ - Part A
Revision Date	: 08/21/20
Supplier	: The D.S. Brown Company 300 East Cherry Street North Baltimore, Ohio 45872 419-257-3561
In Case of Emergency	: Chemtrec 1-800-262-8200 International 01-703-741-5500
Product Recommended Uses	: For further information, refer to product technical data sheet.

Section 2. Hazards Identification

Classification of the Substance or Mixture	: Acute aquatic toxicity - Category 3 Carcinogenicity - Category 2 Chronic aquatic toxicity - Category 3 Eye irritation - Category 2A Skin irritation - Category 2 Skin Sensitizer - Category 1
Pictograms	: 
Signal Word	: Warning
Hazard Statements - Health	: H351 - Suspected of causing cancer H319 - Causes serious eye irritation H315 - Causes skin irritation H317 - May cause an allergic skin reaction
Hazard Statements - Environment	: H412 - Harmful to aquatic life with long lasting effects
Precautionary Statements - General	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read label before use.
Precautionary Statements - Prevention	: P273 - Avoid release to the environment. P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P264 - Wash thoroughly after handling. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P272 - Contaminated work clothing should not be allowed out of the workplace.
Precautionary Statements - Response	: P308 + P313 - If exposed or concerned: Get medical advice/attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Section 2. Hazards Identification *cont'd.*

- Precautionary Statements - Response *cont.*** : P337 + P313 - If eye irritation persists: Get medical advice/attention.
P302 + P352 - **IF ON SKIN:** Wash with plenty of water.
P321 - Specific treatment (see section 4 on this SDS).
P362 + P364 - Take off contaminated clothing. And wash it before reuse.
P333 + P313 - If skin irritation or a rash occurs: Get medical advice/attention.
- Precautionary Statements - Storage** : P405 - Store locked up.
- Precautionary Statements - Disposal** : P501 - Dispose of contents/container to an approved waste disposal plant.

Section 3. Composition/Information on Ingredients

CAS	Chemical Name	% By Weight
0025068-38-6	BISPHENOL A EPOXY RESIN	47% - 87%
0068609-97-2	ALKYL GLYCIDYL ETHER	5% - 20%
0013463-67-7	TITANIUM DIOXIDE	0% - 10%
0001333-86-4	CARBON BLACK	0% - 5%

Specific chemical identify and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

Section 4. First Aid Measures

- Inhalation** : Remove source of exposure or move person to fresh air and keep comfortable for breathing.
If exposed, feel unwell, concerned: Call a POISON CENTER or doctor.
- Skin Contact** : Rinse/wash with lukewarm, gently flowing water and mild soap for 15-20 minutes or until products is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention.
If exposed or concerned: Get medical advice/attention.
- Eye Contact** : Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.
- Ingestion** : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position. Give 1 or 2 glasses of milk or water to drink and refer person to medical personnel. Do not give anything by mouth to an unconscious person.

Section 5. Fire-Fighting Measures

- Suitable Extinguishing Media** : Dry chemical, foam, carbon dioxide water spray or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.
- Specific Hazards in Case of Fire** : Excessive pressure or temperature may cause explosive rupture of containers.
- Fire-fighting Procedures** : Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.
- Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
- Special Protective Actions** : Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.
- Care should always be exercised in dust/mist areas.

Section 6. Accidental Release Measures

- Emergency Procedure** : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch or walk through spilled material.
- Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.
- If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated..
- Recommended Equipment** : Appropriate dust or face mask to eliminate breathing foam dust particulates.
- Personal Precautions** : Avoid breathing vapors. Avoid contact with skin, eyes or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.
- Environmental Precautions** : Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.
- Methods and Materials for Containment and Cleaning Up** : Soak up material with absorbent and shovel into a chemical waste container. Cover container, but do not seal, and remove from work area. Residues from spill cleanup may continue to be regulated under provisions of RCRA and require storage and disposal as hazardous waste. For major spills, call CHEMTREC (Chemical Transportation Emergency Center) at 800-424-9300.

Section 7. Handling and Storage

- General** : Wash hands after use.
Do not get in eyes, on skin or on clothing.
Do not breathe vapors or mists.
Use good personal hygiene practices.
Eating, drinking and smoking in work areas is prohibited.
Remove contaminated clothing and protective equipment before entering eating areas.
Eyewash stations and showers should be available in areas where this material is used and stored.
Individuals with existing respiratory disease such as chronic bronchitis, emphysema, or asthma should not be exposed.
- Ventilation Requirements** : Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.
- Storage Room Requirements** : Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.
- Store in tightly sealed containers to protect from atmospheric moisture. Store in a cool dry area. Store liquid in containers above ground and surround by dikes to contain spills or leaks.
- Do not cut, drill, grind, weld, or perform similar operations on or near containers.

Section 8. Exposure Controls/Personal Protection

- Eye Protection** : Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.
- Skin Protection** : Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over- boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.
- Respiratory Protection** : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.
- Use either an atmosphere supplying respirator or an air-purifying respirator for organic vapors.

Section 8. Exposure Controls/Personal Protection *cont'd.*

Appropriate Engineering Controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m ³)	OSHA STEL (ppm)	OSHA STEL (mg/m ³)	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)
Carbon Black		3.5				1		
Titanium Dioxide		15				1		b

Chemical Name	NIOSH TWA (mg/m ³)	NIOSH STEL (ppm)	NIOSH STEL (mg/m ³)	NIOSH Carcinogen	ACGIH TWA (ppm)	ACGIH TWA (mg/m ³)	ACGIH STEL (ppm)	ACGIH STEL (mg/m ³)
Carbon Black	3.5a			1		3 (I)		
Titanium Dioxide				1		10		

Chemical Name	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations
Carbon Black	A3	Bronchitis	A3
Titanium Dioxide	A4	LRT irr	A4

(I) - Inhalable fraction, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, irr - Irritation, LRT - Lower respiratory tract

Section 9. Physical and Chemical Properties

Specific Gravity	: 1.10
VOC Regulatory	: 0.00 lb/gal
VOC Part A & B Combined	: N.A.
Appearance	: Liquid
Odor Threshold	: N.A.
Odor Description	: Mild chemical
pH	: N.A.
Water Solubility	: N.A.
Flammability	: N.A.
Flash Point Symbol	: N.A.
Flash Point	: 200 °C
Viscosity	: N.A.
Lower Explosion Level	: N.A.
Upper Explosion Level	: N.A.
Vapor Pressure	: N.A.
Vapor Density	: Heavier than air

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

Freezing Point	: N.A.
Melting Point	: N.A.
Low Boiling Point	: 250 °C
High Boiling Point	: N.A.
Auto Ignition Temp	: N.A.
Decomposition Pt	: N.A.
Evaporation Rate	: Slower than ether
Coefficient Water/Oil	: N.A.

Section 10. Stability and Reactivity

Stability	: Material is stable at standard temperature and pressure.
Conditions to Avoid	: Heat, high temperature, open flame, sparks, and moisture. Contact with incompatible materials in a closed system will cause buildup of pressure.
Hazardous Reactions/ Polymerization	: Will not occur but aliphatic amine will cause irreversible polymerization with considerable heat and build up.
Incompatible Materials	: This product will react with materials such as amines, alkalis and acids. Avoid strong oxidizing agents. Some reactions can be violent.
Hazardous Decomposition Products	: Combustion products: organic vapors and thermal decomposition fragments.

Section 11. Toxicology Information

Skin Corrosion/Irritation	: Repeated skin contact may cause a persistent irritation or dermatitis. May also aggravate an existing skin condition. Causes skin irritation
Serious Eye Damage/Irritation	: Causes serious eye irritation
Respiratory/Skin Sensitization	: Exposure may cause mucous membrane and respiratory tract irritation, tightness of chest, headache, shortness of breath, and a dry cough. The effects of acute exposure may be delayed in onset up to 12-24 hours. Repeated exposure above current occupational limits may cause an allergic sensitization of the respiratory tract. This is characterized by an asthma-like response upon re-exposure to the chemical. The symptoms may include coughing, wheezing, shortness of breath and chest tightness. May cause an allergic skin reaction
Carcinogenicity	: Suspected of causing cancer.
Germ Cell Mutagenicity	: No data available.
Reproductive Toxicity	: No data available.

Section 11. Toxicology Information *cont'd.*

Specific Target Organ Toxicity : No data available.
- **Single Exposure**

Specific Target Organ Toxicity : Repeated exposure generally aggravates the following medical conditions:
- **Repeated Exposure** Cardiovascular disease and Chronic respiratory disease.

No data available.

Aspiration Hazard : No data available.

Acute Toxicity : Ingestion : Irritation or chemical burns of the mouth, pharynx, esophagus and stomach can develop following ingestion.

No data available.

Likely Routes of Exposure : Inhalation, Ingestion, Skin contact, Eye contact

Chronic Exposure : 0001333-86-4 CARBON BLACK

CARCINOGENIC EFFECTS: In 1996, the IARC reevaluated Carbon Black as a Group 2B carcinogen. This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence.

Prolonged inhalation of Carbon black can result in lung disease. Symptoms include coughing, shortness of breath, wheezing and reduced pulmonary function.

Potential Health Effects - : 0001333-86-4 CARBON BLACK

Miscellaneous

Is an IARC, NTP or OSHA carcinogen. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. The following medical conditions may be aggravated by exposure: asthma, respiratory disease. WARNING: This chemical is known to the State of California to cause cancer.

0013463-67-7 TITANIUM DIOXIDE

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m³ respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m³ level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

0025068-38-6 BISPHENOL A EPOXY RESIN

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guin

0068609-97-2 ALKYL GLYCIDYL ETHER

The following medical conditions may be aggravated by exposure: allergies, eczema, skin disorders. Irritating to the mouth, throat and stomach. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin.

Section 12. Ecological Information

Toxicity	: Harmful to aquatic life Harmful to aquatic life with long lasting effects
Mobility in Soil	: No data available.
Other Adverse Effects	: No data available.
Bio-accumulative Potential	: No data available.
Persistence and Degradability	: 0001333-86-4 CARBON BLACK Carbon Black's insolubility in water results in it not being biodegradable in any medium or by biota. It is considered persistent in the natural environment.

Section 13. Disposal Considerations

Waste Disposal	: Under RCRA, it is the responsibility of the user of the product, to determine a the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.
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Section 14. Transport Information

U.S. DOT Information	: Not regulated.
IMDG Information	: Not regulated.
IATA Information	: Not regulated.

Section 15. Regulatory Information

CAS	Chemical Name	% By Weight	Regulation List
0025068-38-6	BISPHENOL A EPOXY RESIN	47% - 87%	DSL, SARA312, TSCA
0068609-97-2	ALKYL GLYCIDYL ETHER	5% - 20%	DSL, SARA312, TSCA
0013463-67-7	TITANIUM DIOXIDE	0% - 10%	DSL, SARA312, TSCA, CA_Prop65 - California Proposition 65
0001333-86-4	CARBON BLACK	0% - 5%	DSL, SARA312, TSCA, CA_Prop65 - California Proposition 65

Section 16. Other Information

- Other Information** : Note: As per GHS, category 1 is the greatest level of hazard within each class.
- Glossary** : ACGIH- American Conference of Governmental Industrial Hygienists
 ANSI- American National Standards Institute
 CA Prop65- California Proposition 65
 Canadian TDG- Canadian Transportation of Dangerous Goods
 CAS- Chemical Abstract Service
 Chemtrec- Chemical Transportation Emergency Center (US)
 CHIP- Chemical Hazard Information and Packaging
 DSL- Domestic Substances List
 ECEquivalent Concentration
 EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits
 EPCRA- Emergency Planning and Community Right-To-Know Act
 ESL- Effects screening levels
 HMIS- Hazardous Material Information Service
 LC- Lethal Concentration
 LD- Lethal Dose
 NFPA- National Fire Protection Association
 OEL- Occupational Exposure Limits;
 OSHA- Occupational Safety and Health Administration, US Department of Labor
 PEL- Permissible Exposure Limit
 SARA (Title III)- Superfund Amendments and Reauthorization Act
 SARA 313- Superfund Amendments and Reauthorization Act, Section 313
 SCBA- Self-Contained Breathing Apparatus
 STEL- Short Term Exposure Limit
 TCEQ- Texas Commission on Environmental Quality
 TLV- Threshold Limit Value
 TSCA- Toxic Substances Control Act Public Law 94-469
 TWA- Time Weighted Value
 US DOT- US Department of Transportation
 WHMIS- Workplace Hazardous Materials Information System.
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