

Section 1-Chemical Product and Company Identification

Manufacturer or supplier's details

Company name of supplier : PremierRepak Inc.
Address : 8351 W. 185th Street
Tinley Park, IL 60487
Telephone : (708) 444-2688
Fax : (708) 429-4280
www.premierrepak.com
Emergency Phone Number : InfoTrac 24-hour Emergency Number : 1 (800) 535-5053
InfoTrac Contract Number : 105384

Recommended use of the chemical and restrictions on use

Recommended use : Adhesive, binding agents

Section 2-Hazard Identification

GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Precautionary Statements : **Prevention:**
P271 Use only outdoors or in a well-ventilated area.

Other Hazards

None known

Section 3-Composition and Information on Ingredients

Substance/Mixture: Mixture

Chemical Nature: Silicone elastomer

Hazard Ingredients:

Chemical Name	C.A.S. No.	Concentration (% w/w)
Silicon Dioxide	7631-86-9	<= 7.344
Titanium Dioxide	13463-67-7	<= 2.24
Aluminum	7249-90-5	<= 1.575
Carbon Black	1333-86-4	<= 0.455

Section 4 – First Aid Measures

If Inhaled: If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

In case of skin contact: Wash with water and soap as a precaution.

Get medical attention if symptoms occur.

In case of eye contact: Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.

If swallowed: If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed: None known.

Protection of First-Aiders: No special precautions are necessary for first aid responders.

Notes to Physician: Treat symptomatically and supportively.

Section 5- Firefighting Measures

Suitable Extinguishing Media: Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable Extinguishing Media: None known

Specific Hazards during Fire Fighting: Exposure to combustion products may be a hazard to health.

Hazardous Combustion Products: Carbon oxides, Silicon oxides, formaldehyde, metal oxides.

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special Protective Equipment for Fire Fighters: Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:
Follow safe handling advice and personal protective equipment recommendations.

Environmental Precautions:
Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up:
Soak up with inert absorbent material.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases.

You will need to determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Section 7- Handling and Storage

Technical measures: See Engineering measures under **SECTION 8: Exposure Controls/Personal Protection**.

Local/Total Ventilation: Use only with adequate ventilation.

Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment.

Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage: Keep in properly labeled containers.

Store in accordance with the particular national regulations.

Materials to avoid: Do not store with the following product types: Strong oxidizing agents.

Section 8- Exposure Controls and Personal Protection

Ingredients with workplace control parameters

Ingredient	C.A.S. Number	Value Type (Form of Exposure)	Control parameters / Permissible concentration	Basis
Silicon Dioxide	7631-86-9	TWA (Dust)	20 million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
		TWA	6 mg/m3 (Silica)	NIOSH REL
Titanium Dioxide	13463-67-7	TWA (Total Dust)	15 mg/m3	OSHA Z-1
		TWA	10 mg/m3 (Titanium Dioxide)	ACGIH
		TWA (Respirable)	5 mg/m3	NIOSH REL
Aluminum	7249-90-5	TWA (total)	10 mg/m3	NIOSH REL
		TWA (Total Dust)	15 mg/m3 (Aluminum)	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3 (Aluminum)	OSHA Z-1
		TWA (pyro powders)	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (respirable fraction)	1 mg/m3 (Aluminum)	ACGIH
		TWA	3.5 mg/m3	NIOSH REL
Carbon Black	1333-86-4	TWA	3.5 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	3 mg/m3	ACGIH
		TWA	3 mg/m3	NIOSH REL

These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Silicon dioxide
Titanium dioxide

Carbon black

Engineering Measures:

Processing may form hazardous compounds (see SECTION 10).
Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.
Dust formation may be relevant in the processing of this product.
In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment.
Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m³ - total dust, 5 mg/m³ - respirable fraction, and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m³ - respirable fraction, 10 mg/m³ inhalable particles.

Personal Protective Equipment:

Respiratory Protection: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand Protection:

Remarks: Wash hands before breaks and at the end of the day.

Eye Protection: Wear the following personal protective equipment: Safety glasses

Skin and Body Protection: Skin should be washed after contact.

Hygiene Measures: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink, or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

Section 9- Physical/Chemical Characteristics

Appearance: Paste

Color: In accordance with product description.

Odor: Acetic acid

Odor threshold: No data available.

pH: Not applicable.

Freezing/melting point: No data available.

Initial boiling point and boiling range: Not applicable.

Flash point: > 100 °C (Method: Closed Cup)

Evaporation rate: Not applicable.

Flammability (Solid, Gas): Not classified as a flammability hazard.

Self-ignition: The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.

Upper explosion limit / Upper flammability limit: No data available.

Lower explosion limit / Lower flammability limit: No data available.

Vapor Pressure: Not applicable.

Relative Vapor Density: No data available.

Relative Density: 1.007

Solubility(ies)

Water solubility: No data available.

Partition coefficient: n-octanol/water: No data available.

Autoignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity, Dynamic: Not applicable.

Explosive Properties: Not explosive

Oxidizing Properties: The substance or mixture is not classified as oxidizing.

Molecular Weight: No data available.

Particle size: No data available.

Section 10- Stability and Reactivity

Reactivity: Not classified as a reactivity hazard.

Chemical Stability: Stable under normal conditions.

Possibility of hazardous reactions: Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Acetic acid is formed upon contact with water or humid air. When heated to temperatures above 150 C (300 F) in the presence of air, trace quantities of formaldehyde may be released. Adequate ventilation is required. See OSHA formaldehyde standard, 29 CFR 1910.1048. Hazardous decomposition products will be formed at elevated temperatures.

Conditions to Avoid: None known.

Incompatible Materials: Oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition: Formaldehyde.

Section 11- Toxicological Information

Information on likely routes of exposure:

Skin contact

Ingestion

Eye contact

Acute toxicity:

Not classified based on available information.

Ingredients:

Silicon Dioxide:

Acute Oral toxicity: LD50 (Rat): > 3,300 mg/kg

Assessment: The substance or mixture has no acute oral toxicity.

Remarks: Information taken from reference works and the literature.

Acute Inhalation toxicity: LD50 (Rat): > 2.08 mg/l

Exposure time: 4 hours

Test Atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity.

Remarks: Information taken from reference works and the literature.

Acute Dermal toxicity: LD50 (Rabbit): > 5,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity.

Remarks: Information taken from reference works and the literature.

Titanium Dioxide:

Acute Oral toxicity: LD50 (Rat): > 5,000 mg/kg

Acute Inhalation toxicity: LD50 (Rat): > 6.82 mg/l

Exposure time: 4 hours

Test Atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity.

Aluminum:

Acute Oral toxicity: LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Remarks: Based on data from similar materials.

Acute Inhalation toxicity: LD50 (Rat): > 0.888 mg/l

Exposure time: 4 hours

Test Atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhalation toxicity.

Carbon Black:

Acute Oral toxicity: LD50 (Rat): > 5,000 mg/kg

Acute Inhalation toxicity: Acute toxicity estimate: LD50 (Rat): > 0.0046 mg/l

Exposure time: 4 hours

Test Atmosphere: dust/mist

Acute Dermal toxicity: LD50 (Rabbit): > 3,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Remarks: Based on data from similar materials

Ingredients:

Silicon Dioxide:

Result: No skin irritation

Remarks: Information taken from reference works and the literature.

Titanium Dioxide:

Species: Rabbit

Result: No skin irritation

Aluminum:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Remarks: Based on data from similar materials.

Carbon Black:

Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation:

Not classified based on available information.

Ingredients:

Silicon Dioxide:

Result: No eye irritation

Remarks: Information taken from reference works and the literature.

Titanium Dioxide:

Species: Rabbit

Result: No eye irritation

Aluminum:

Species: Rabbit

Result: No eye irritation

Remarks: Based on data from similar materials.

Carbon Black:

Species: Rabbit

Result: No eye irritation

Respiratory or skin sensitization:

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Ingredients:

Silicon Dioxide:

Assessment: Does not cause skin sensitization.

Test Type: Skin: Test type not specified.

Species: Guinea pig

Remarks: Information taken from reference works and the literature.

Titanium Dioxide:

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse

Result: Negative

Aluminum:

Routes of Exposure: Skin contact

Species: Guinea pig

Result: Negative

Remarks: Based on data from similar materials.

Carbon Black:

Test Type: Buehler Test

Routes of Exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Negative

Germ cell mutagenicity:

Not classified based on available information.

Ingredients:

Silicon Dioxide:

Genotoxicity in vitro: Result: Negative

Remarks: Information taken from reference works and the literature.

Genotoxicity in vivo: Application Route: Ingestion

Result: Negative

Remarks: Information taken from reference works and the literature.

Germ cell mutagenicity Assessment: Animal testing did not show any mutagenic effects.

Titanium Dioxide:

Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)

Result: Negative

Genotoxicity in vivo: Test Type: In vivo micronucleus test

Species: Mouse

Result: Negative

Aluminum:

Genotoxicity in vitro: Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: Negative

Genotoxicity in vivo: Test Type: In vivo micronucleus test

Species: Rat

Application Route: Ingestion

Method: OECD Test Guideline 474

Result: Negative

Remarks: Based on data from similar materials.

Carbon Black:

Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)

Result: Negative

Carcinogenicity:

Not classified based on available information.

Ingredients:

Titanium Dioxide:

Species: Rat

Application Route: Inhalation (dust/fume/mist)

Exposure Time: 24 months

Method: OECD Test Guideline 453

Result: Positive

Remarks: The mechanism or mode of action may not be relevant in humans. These substance(s) are inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

Carcinogenity Assessment: Limited evidence of carcinogenicity in inhalation studies with animals.

Aluminum:

Species: Rat
Application Route: Inhalation (dust/fume/mist)
Exposure Time: 86 weeks
Result: Negative

IARC: Group 2B: Possibly carcinogenic to humans
Titanium Dioxide 13463-67-7
Carbon Black 1333-86-4

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity:

Not classified based on available information.

Ingredients:

Aluminum:

Effects on Fertility: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: Negative
Remarks: Based on data from similar materials.

Effects on Fetal Development: Test Type: Embryo-fetal development
Species: Mouse
Application Route: Ingestion
Result: Negative

STOT-single exposure:

Not classified based on available information.

STOT-repeated exposure:

Not classified based on available information.

Ingredients:

Carbon Black:

Routes of exposure: inhalation (dust/fume/mist)
Assessment: No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

Repeated dose toxicity:

Ingredients:

Titanium Dioxide:

Species: Rat
NOAEL: 24,000 mg/kg
Application Route: Ingestion

Exposure Time: 28 days

Species: Rat

NOAEL: 10 mg/m³

Application Route: Inhalation (dust/fume/mist)

Exposure Time: 2 y

Remarks: These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Carbon Black:

Species: Rat

NOAEL: 1 mg/m³

LOAEL: 7 mg/m³

Application Route: Inhalation

Test Atmosphere: dust/mist

Exposure Time: 90 d

Remarks: These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Aspiration toxicity:

Not classified based on available information.

Section 12 – Ecological Information

Ecotoxicity:

Ingredients:

Titanium Dioxide:

Toxicity to fish: LL50 (Oncorhynchus mykiss (rainbow trout)): >100 mg/l

Exposure Time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia/ other aquatic invertebrates: EC50 (Daphnia magna (water flea)): >100 mg/l

Exposure Time: 48 h

Toxicity to Algae: EC50 (Skeletonema costatum (marine diatom)): >10,000 mg/l

Exposure Time: 72 h

Toxicity to Microorganisms: EC50: >1,000 mg/l

Exposure Time: 3 h

Method: OECD Test Guideline 209

Aluminum:

Toxicity to fish: NOEC (Salmo trutta (brown trout)): > 80mg/l

Exposure Time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia/ other aquatic invertebrates: NOEC (Daphnia magna (water flea)): >0.135 mg/l

Exposure Time: 48 h

Method: OECD Test Guideline 202

Ecotoxicology Assessment

Chronic aquatic toxicity: No toxicity at the limit of solubility.

Carbon Black:

Toxicity to fish: LC0 (Danio rerio (zebra fish)): 1,000 mg/l
Exposure Time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia/ other aquatic invertebrates: EC50 (Daphnia magna (water flea)): > 5,600 mg/l
Exposure Time: 24 h
Method: OECD Test Guideline 202

Toxicity to Algae: NOEC (Desmodesmus subspicatus(green algae)): 10,000 mg/l
Exposure Time: 72 h
Method: OECD Test Guideline 201

Persistence and degradability:

No data available

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

Other Adverse Effects:

No data available.

Section 13 – Disposal Considerations

Disposal Methods:

Resource Conservation and Recovery Act (RCRA): This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.

Waste from residues: Dispose of in accordance with local regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

Section 14 – Transport Information

International Regulation:

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation:

49 CFR: Not regulated as a dangerous good

Section 15- Regulatory Information

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity:

Ingredients	CAS Number	Component RQ (lbs)	Calculated product RQ(lbs)
Acetic Acid	64-19-7	5000	*
Acetic Anhydride	108-24-7	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ

SARA 302 Extremely Hazardous Substance Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ

SARA 311/312 Hazards

No SARA Hazards

SARA 313: The following components are subject to reporting levels established by SARA Title III, Section 313:

Component Name	CAS Number	Percent
Aluminum	7429-90-5	<= 1.575%

US State Regulations

Pennsylvania Right To Know

Dimethyl siloxane, hydroxy-terminated	70131-67-8
Silicon dioxide	7631-86-9
Dimethyl siloxane, trimethylsiloxy-terminated	63148-62-9
Iron oxide	1332-37-2
Titanium dioxide	13463-67-7
Aluminum	7429-90-5
Pigment Blue 15	147-14-8
Acetic acid	64-19-7
Acetic anhydride	108-24-7

California Prop. 65

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

California List of Hazardous Substances

Aluminum	7429-90-5
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California Permissible Exposure Limits for Chemical Contaminants

Silicon dioxide	7631-86-9
Titanium dioxide	13463-67-7
Aluminum	7429-90-5

The ingredients of this product are reported in the following inventories:

TSCA: All chemical substances in this material are either listed on the TSCA Inventory or are in compliance with a TSCA inventory exemption.

AICS: All ingredients listed or exempt.

IECSC: All ingredients listed or exempt.

PICCS: All ingredients listed or exempt.

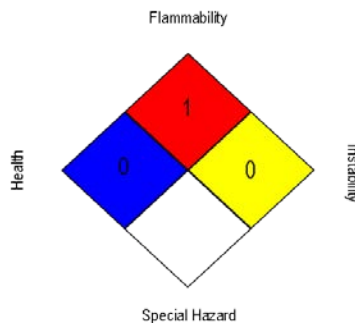
DSL: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

REACH: For purchases from PremierRepak, Inc EU legal entities, all ingredients are currently pre/registered or exempt under REACH. Please refer to section 1 for recommended uses. For purchases from non-EU PremierRepak, Inc. legal entities with the intention to export into EEA please contact PremierRepak, Inc.

Section 16 – Other Information

Further information:

NFPA:



HMIS® IV:

HEALTH	1	0
FLAMMABILITY	1	
PHYSICAL HAZARD	0	

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations:

ACGIH: USA. ACGIH Threshold Limit Values (TLV)

NIOSH REL: USA. NIOSH Recommended Exposure Limits.

OSHA Z-1: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants.

OSHA Z-3: USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

ACGIH / TWA: 8-hour, time-weighted average

NIOSH REL / TWA: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

OSHA Z-1 / TWA: 8-hour time weighted average

OSHA Z-3 / TWA: 8-hour time weighted average

AICS = Australian Inventory of Chemical Substances **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 Standardization **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** = Global Harmonization System **GLP** = Good Laboratory Practice **HMIS** = Hazardous Material Identification System **IARC** = The International Agency for Research on Cancer **IATA** = International Air Transportation 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**

PR2200
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= International Organisation for Standardization **KECI** = Korea Existing Chemicals Inventory **LC50** = Lethal Concentration of 50% of a test population **LD50** = Lethal Dose of 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 Observed (Adverse) 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 Substances **PICCS** = Philippines Inventory of Chemicals and Chemical Substances **(Q)SAR** = (Quantative) 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 Substances 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

Sources of key data used to compile the Safety Data Sheet:

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu>

Prepared by: PremierRepak, Inc.

<http://premierrepak.com/>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.