



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Product Name: ASTROBRIGHTS®

Product Number: Contact Neenah, Inc. for applicable product codes.

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against: Various premium paper product applications.

1.3 Details of the Supplier of the Safety Data Sheet:

Supplier	Neenah, Inc. 3460 Preston Ridge Road Suite 600 Alpharetta, GA 30005 Telephone: +1 800-558-5061 (during business hours 8-4 CST)
Email:	regulatory.affairs@neenah.com
SDS Date of Preparation:	01.07.2019

1.4 Emergency Telephone Number: +1 800-424-9300 (CHEMTREC, within the US and Canada)

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture: This product is a solid as sold. The following applies to any dust generated during processing.

GHS Classification:

Not classified

US OSHA Specific Hazards:

Combustible Dust

2.2 Label Elements:

WARNING!

Hazard Phrases

	May form combustible dust concentrations in air.
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2.3 Other Hazards: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

<i>Chemical Name</i>	<i>CAS-No./ EINECS-No</i>	<i>%</i>	<i>GHS Classification:</i>
Cellulose Pulp	Mixture	70-100	Not Hazardous
Non-Hazardous Ingredients	Proprietary	0-30	Not Hazardous
Calcium carbonate	471-34-1 / 207-439-9	1-20	Not Hazardous
Modified Starch	9005-27-0 / 618-410-9	1-20	Not Hazardous
Aluminum oxide	1344-28-1 / 215-691-6	1-5	Not Hazardous

The exact concentration is being withheld as a trade secret.

See Section 16 for further information on GHS Classification.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures:

Inhalation: No first aid should be required; if exposed to dust or strong odors generated during cutting or handling: remove victim to fresh air.

Skin contact: Flush thoroughly with water and seek medical attention if irritation persists.

Eye contact: Flush eye(s) with plenty of water while holding open eyelids open. Remove contact lenses if safe and easy to do. Get medical attention if irritation occurs and persists.

Ingestion: Do not induce vomiting unless directed to do so by a medical professional. Seek medical attention if large quantities are ingested.

4.2 Most Important symptoms and effects, both acute and delayed: Contact with dust may cause eye irritation. Inhalation of dust or strong odors that may be generated from cutting or other processing of product may cause mucous membrane and upper respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed: None should be required.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media:

Suitable Extinguishing Media: Water, water fog, foam, carbon dioxide, dry chemical.

Unsuitable Extinguishing Media: Direct water stream may suspend fine dust particles and form an explosive dust hazard.

5.2 Special Hazards Arising from the Substance or Mixture:

Unusual Fire and Explosion Hazards: Dust generated from cutting or other processing of this material may form explosive mixture in air.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide.

5.3 Advice For Firefighters: In the event of fire, wear self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: No special precautions required. If cutting or tearing (which produces dust) wear safety glasses with side-shields to protect eyes. Avoid inhalation of dust.

6.2 Environmental Precautions: Prevent release to the environment. Comply with all local and national regulations.

6.3 Methods and Material for Containment and Cleaning Up: Pick up and place in a suitable container for use or disposal. Avoid dust generation.

6.4 Reference to Other Sections: Refer to Section 13 for disposal advice.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling: This product is not a hazardous material in solid form. Minimize the generation and accumulation of dust. If dust is generated, avoid breathing dust and contact with eyes.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, dry, well-ventilated place away from acids, bases, oxidizing agents, and reducing agents.

7.3 Specific end use(s): None known.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure limit(s)
Cellulose Pulp (as Cellulose)	10 mg/m ³ TWA ACGIH TLV 15 mg/m ³ TWA OSHA PEL (Total dust) 5 mg/m ³ TWA OSHA PEL (Respirable fraction) 10 mg/m ³ TWA UK WEL (Inhalable) 4 mg/m ³ TWA UK WEL (Respirable) 20 mg/m ³ STEL UK WEL (Inhalable)
Non-Hazardous Ingredients	None established
Calcium Carbonate	15 mg/m ³ TWA OSHA PEL (Total dust) 5 mg/m ³ TWA OSHA PEL (Respirable fraction)
Modified Starch	10 mg/m ³ TWA ACGIH TLV 15 mg/m ³ TWA OSHA PEL (Total dust)

	<p>5 mg/m³ TWA OSHA PEL (Respirable fraction) 10 mg/m³ TWA UK WEL (Inhalable) 4 mg/m³ TWA UK WEL (Respirable)</p>
Aluminum oxide	<p>15 mg/m³ TWA OSHA PEL (Total dust) 5 mg/m³ TWA OSHA PEL (Respirable fraction) 1.5 mg/m³ TWA DFG MAK (Respirabl fraction) 4 mg/m³ TWA DFG MAK (Inhalable) 10 mg/m³ TWA UK WEL (Inhalable) 4 mg/m³ TWA UK WEL (Respirable)</p>

8.2 Exposure Controls:

Ventilation: No special ventilation normally required. Provide appropriate exhaust ventilation at machinery and at places where dust or odor can be generated.

Respiratory Protection: No personal respiratory protective equipment normally required. If the exposure limit is exceeded or for symptoms of overexposure, wear an appropriate NIOSH (or local authority) certified respirator.

Hand Protection: Follow facility requirements.

Skin Protection: Follow facility requirements.

Eye Protection: Wear safety glasses with side-shields to prevent eye contact with dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Appearance:	White or colored solid
Odour:	No significant odour
Odour Threshold:	Not applicable
Boiling Point/Range:	Not applicable
Melting Point/Range:	Not applicable
Relative Density:	Not available
Vapor Pressure:	Not applicable
Vapor Density (air=1):	Not applicable
Solubility(ies):	Insoluble
pH:	Not applicable
Partition Coefficient (n-octanol/water):	Not applicable
Evaporation Rate (Butyl acetate=1):	Not applicable

Percent Volatile by Volume (%):	0
Flashpoint:	Not applicable
Flammable Limits in Air % by Volume:	LEL (Lower): Not applicable UEL (Upper): Not applicable
Flammability (solid, gas):	Combustible dust
Auto-Ignition Temperature:	Not available
Decomposition Temperature:	Not available
Viscosity:	Not applicable
Explosive Properties:	Dust may present an explosion hazard if suspended in air at high concentrations.
Oxidising Properties:	Not an oxidizer

9.2 Other Information: Not available

10. STABILITY AND REACTIVITY

10.1 Reactivity: Not reactive.

10.2 Chemical Stability: Stable under normal storage and handling conditions.

10.3 Possibility of Hazardous Reactions: Avoid heat, sparks, and open flame when product is in dust form. Dust generated from cutting or other processing of this material may present an explosion hazard if suspended in air at high concentrations.

10.4 Conditions to Avoid: Avoid temperatures above the recommended temperature (375°F/190°C).

10.5 Incompatible Materials: Strong oxidizing agents.

10.6 Hazardous Decomposition Products: Thermal decomposition will produce carbon monoxide, carbon dioxide.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Inhalation: Inhalation of dust or strong odors that may be generated from cutting or other processing of product may cause mucous membrane and upper respiratory irritation.

Skin contact: None expected. Prolonged contact with dust may cause slight irritation.

Eye contact: Dust may cause eye irritation.

Ingestion: No harmful effects expected.

Chronic toxicity: None currently known.

Medical Conditions Aggravated by Exposure: None currently known.

Acute Toxicity Values: No data available.

Irritation: Not expected to be irritating.

Corrosivity: Not expected to be corrosive.

Sensitisation: Not expected to be a sensitizer.

Repeat Dose Toxicity: No adverse effects expected.

Mutagenicity: No data available

Carcinogenicity Data: None of the components present at 0.1% or greater are listed as carcinogens or suspected carcinogens by IARC, NTP, ACGIH or OSHA.

Reproductive Toxicity: No adverse effects on reproduction are known.

12. ECOLOGICAL INFORMATION

12.1 Aquatic Toxicity: No data available.

12.2 Persistence and Degradability: No data currently available.

12.3 Bioaccumulative Potential: No data currently available.

12.4 Mobility in Soil: No data currently available.

12.5 Results of PBT and vPvB Assessment: None required.

12.6 Other Adverse Effects: None known

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods: Dispose of contents/container in accordance with all local and national regulations.

14. TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not Regulated	None	None	Not applicable
Canadian TDG	None	Not Regulated	None	None	Not applicable
EU ADR/RID	None	Not Regulated	None	None	Not applicable
IMDG	None	Not Regulated	None	None	Not applicable
IATA/ICAO	None	Not Regulated	None	None	Not applicable

14.6 Special Precautions for User: Not applicable

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable



15. REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

US Regulations

EPA Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.

SARA 302 Listed Chemicals: None.

SARA 311/312 Hazard Categories: This product is a manufactured article and not subject to reporting.

SARA 313 This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under the SARA Section 313 (40 CFR 372): None.

California Proposition 65: This product does not contain chemicals listed per the Safe Drinking Water and Toxic Enforcement Act of 1986 requiring a warning.

International Regulations

Canadian DSL Status: All of the components of this product are listed on the DSL or has a quantity limitation.

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

EU EINECS Status: All of the components of this product are listed on the EINECS Inventory or exempted from notification.

SVHC: This product contains the following Substances of Very High Concern (SVHCs): None

15.2 Chemical Safety Assessment: None Required

16. OTHER INFORMATION

GHS Phrases for Reference (See Section 2 and 3):

None

HMIS Rating: Health 1 Fire 2 Physical Hazard 0

Revision Date: January 7, 2019

Revision Summary: Updated Section 2

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OSHA GHS Label

ASTROBRIGHTS®

WARNING

May form combustible dust concentrations in air.
Prevent accumulation of dust in the workplace. Keep dust away from ignition sources.

Neenah, Inc.
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