

1. Product and Company Identification

Material name NeroPlast
Version # 01
Issue date 06-15-2012
Revision date -
Supersedes date -
CAS # 1362167-53-0
Product Identifier: 100-xx-100-xx-xx
Product use For research and development purposes only. Filler for Polymers.
Manufacturer/Supplier New Polymer Systems INC
 4 Parting Brook Rd
 New Canaan,
 CT 06840
 info@newpolymersystems.com
 Contact Person: Joachim Roesler

Telephone Number: +1 203-594-7774

Emergency +1 203-594-7774

2. Hazards Identification

Physical state Solid.
Appearance Pellets or powder.
OSHA regulatory status This product is hazardous according to OSHA 29 CFR 1910.1200 due to the potential for dust generation.

Potential health effects

Eyes Dust in the eyes will cause irritation.
Skin Dust may irritate skin.
Inhalation Dust may irritate respiratory system or lungs.
Ingestion May cause discomfort if swallowed.

Target organs Eyes. Respiratory system.

Chronic effects Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Potential environmental effects The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Modified Lignocellulose	1362167-53-0	

4. First Aid Measures

First aid procedures

Eye contact Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.

Skin contact Rinse with water. Get medical attention promptly if symptoms persist or occur after washing.

Inhalation In case of inhalation of dusts or fumes from heated product: Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly. Large quantities: Get medical attention if symptoms occur.

Notes to physician Treat symptomatically.

General advice First aid personnel must be aware of own risk during rescue.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media None.

Protection of firefighters

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Fire fighting equipment/instructions Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental Release Measures

Personal precautions Avoid inhalation of dust. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions Do not allow to enter drains, sewers or watercourses.

Methods for cleaning up Collect dust using a vacuum cleaner equipped with HEPA filter. Collect and dispose of spillage as indicated in Section 13 of the MSDS.

Other information Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling Avoid inhalation of dust. Avoid prolonged and repeated contact. Use work methods which minimize dust production. Wear appropriate personal protective equipment.

Storage Store in closed original container in a dry place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Additional components	Type	Value	Form
Dust	TWA	3 mg/m ³ 10 mg/m ³	Respirable particles. Inhalable particles.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Additional components	Type	Value	Form
Dust	PEL	5 mg/m ³ 15 mg/m ³	Respirable fraction. Total dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Additional components	Type	Value	Form
Dust	TWA	5 mg/m ³ 15 mg/m ³ 50 mppcf 15 mppcf	Respirable fraction. Total dust. Total dust. Respirable fraction.

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Additional components	Type	Value	Form
Dust	TWA	3 mg/m ³ 10 mg/m ³	Respirable particles. Total particulate.

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Additional components	Type	Value	Form
Dust	TWA	3 mg/m ³ 10 mg/m ³	Respirable fraction. Total dust.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Additional components	Type	Value	Form
Dust	TWA	3 mg/m ³ 10 mg/m ³	Respirable particles. Inhalable

Additional components	Type	Value	Form
Dust	TWA	10 mg/m ³	Total dust.
Engineering controls	Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.		
Personal protective equipment			
Eye / face protection	Use tight fitting goggles if dust is generated.		
Skin protection	For prolonged or repeated skin contact use suitable protective gloves.		
Respiratory protection	Wear respirator if there is dust formation. NIOSH-approved, organic vapor/particulate respirator with a minimum of APF 10		
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

9. Physical & Chemical Properties

Appearance	Pellets or powder.
Physical state	Solid.
Form	Solid.
Color	Brown or black.
Odor	None, or faint smokiness.
Odor threshold	Not available.
pH	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	< 0.1 % Insoluble.
Specific gravity	1.25 (23°C) (Water = 1)
Flash point	302 °F (150 °C)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	446 °F (230 °C)
Bulk density	0.3 - 0.4 g/cm ³
Other data	
Decomposition temperature	572 °F (300 °C)

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal temperature conditions.
Conditions to avoid	Avoid dust formation.
Incompatible materials	No data available.
Hazardous decomposition products	Carbon monoxide. Carbon dioxide.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Sensitization	None known.
Acute effects	May cause discomfort if swallowed.
Local effects	Dusts may irritate the respiratory tract, skin and eyes.
Chronic effects	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Carcinogenicity	None known.
Mutagenicity	None known.
Reproductive effects	None known.

12. Ecological Information

Ecotoxicity	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	None known.
Bioaccumulation / Accumulation	None known.
Mobility in environmental media	The product is insoluble in water and will sediment in water systems.

13. Disposal Considerations

Waste from residues / unused products	Dispose of in accordance with local regulations. Do not allow this material to drain into sewers/water supplies.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200 due to the potential for dust generation.

For Research & Development Only. PMN Review is pending.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
 Immediate Hazard - No
 Delayed Hazard - Yes
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A)
 No

Section 311/312 (40 CFR 370)
 Yes

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)
 Not controlled

Canadian regulations This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS status Non-controlled

State regulations This product does not contain a chemical known to the State of California to cause cancer birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

Mexico regulations This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1*
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 1
Instability: 0

Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

USDA Certified Biobased product 100% as per ASTM D6866