

Safety Data Sheet

Version 4.4 Revision date 11/12/2021

1. PRODUCT AND COMPANY IDENTIFICATION 1.1 **Product identifiers** Description : Graphene Powder 308068-56-6 CAS-No. : 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses : Laboratory chemicals, Manufacture of substances 1.3 Details of the supplier of the safety data sheet Nanostructured & Amorphous Materials Inc. Company : 1526 Katy Gap, Ste 302 Houston, TX 77494, USA +1 281-858-6571 Telephone : Fax: +1 281-858-6507 1.4 **Emergency telephone number** Emergency Phone #: +1 281-858-6571 2. HAZARDS IDENTIFICATION 2.1 Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Eye irritation (Category 2A), H319 Carcinogenicity (Category 2), H351 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 For the full text of the H-Statements mentioned in this Section, see Section 16. 2.2 GHS Label elements, including precautionary statements Pictogram Signal word Warning Hazard statement(s) H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H351 Suspected of causing cancer. Precautionary statement(s) P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 P261 Avoid breathing dust/fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/eye protection/ face protection P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you fee unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsin P308 + P313 If eye irritation persists: Get medical advice/ attention. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plan 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none 3. COMPOSITION/INFORMATION ON INGREDIENTS 3.1 Substances Formula : Graphene Powder CAS-No. 308068							
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If breathed in, move person into fresh air. If not breathing, give artificial respiration.							
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In case of skin contact		In case of skin contact					
Wash off with soap and plenty of water.			enty of water				
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In case of eye contact		In case of eye contact					
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Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.		If ownellowed					
		li Swalloweu					
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a			outh to an unconscious person Rins	e mouth with water. Consult a			

	physician.
4.2	Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11
	4.3 Indication of any immediate medical attention and special treatment needed No data available
5.	FIREFIGHTING MEASURES
5.1	Extinguishing media
	Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2	Special hazards arising from the substance or mixture Carbon oxides
5.3	Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
5.4	Further information No data available
6. /	ACCIDENTAL RELEASE MEASURES
6.1	Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
6.2	Environmental precautions Do not let product enter drains.
6.3	Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4	Reference to other sections For disposal see section 13.
7. H	ANDLING AND STORAGE
7.1	Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
7.2	Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.
7.3	Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
8. E	XPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values. Hazardous components without workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form: solid
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	3,652 - 3,697 °C (6,606 - 6,687 °F)
f) Initial boiling point and boiling range	No data available

g) Flash point No data available p) Flash point No data available h) Evaporation rate No data available i) Flammability (solid, gas) No data available i) Upper/lower filammability or riammability or No data available ihammability or No data available ihy Vapour pressure No data available ih Vapour density No data available in N elative density 2.29 g/cm3 at 25 °C (77 °F) in Water solubility insoluble o) Partition coefficient: No data available r) vator-solution No data available p) Auto-ignition No data available r) Viscosity No data available r) Viscosity No data available i) Oxidizing properties No data available i) Oxidizing properties No data available s) Explosive properties No data available i) Oxidizing properties No data available i) Oxidizing properties No data available s) Explosive properties No data available i) Oxidizing properties No data available ii) Oxidiza available No data available ii) Oxidiza available No data available iii) Reactivity No data available No data available iii) Reactivity No data available Stable under recommended storage conditions.			
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i) Upper/lower fammability or explosive limits No data available k) Vapour pressure No data available l) Vapour density No data available m) Relative density 2.29 g/cm3 at 25 °C (77 °F) n) Water solubility insoluble o) Partition coefficient: n-octanol/water No data available p) Auto-ignition temperature No data available q) Decomposition temperature No data available q) Decomposition temperature No data available i) Viscosity No data available i) Oxidizing properties No data available i) Oxidizing properties No data available 10. STABILITY AND REACTIVITY Interactivity No data available 10.2 Chemical stability Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions		h) Evaporation rate	No data available
flammability or explosive limits k) Vapour pressure No data available i) Vapour density No data available m) Relative density 2.29 g/cm3 at 25 °C (77 °F) n) Water solubility insoluble o) Partition coefficient: No data available n-octanol/water No data available p) Auto-ignition No data available q) Decomposition No data available q) Decomposition No data available r) Viscosity No data available s) Explosive properties No data available to yotidzing properties No data available 10. STABILITY AND REACTIVITY Intercent available 10.1 Reactivity No data available 10.2 Chemical stability Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions		i) Flammability (solid, gas)	No data available
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n) Water solubility insoluble o) Partition coefficient: No data available n-octanol/water No data available p) Auto-ignition No data available q) Decomposition No data available q) Decomposition No data available r) Viscosity No data available s) Explosive properties No data available t) Oxidizing properties No data available 9.2 Other safety information No data available No data available Image: No data available 10. STABILITY AND REACTIVITY 10.1 Reactivity No data available 10.2 Chemical stability Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions		I) Vapour density	No data available
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Stable under recommended storage conditions.10.3 Possibility of hazardous reactions	10.1		
	10.2		d storage conditions.
	10.3		reactions
10.4 Conditions to avoid No data available	10.4		
10.5 Incompatible materials Strong oxidizing agents	10.5		
10.6 Hazardous decomposition products Other decomposition products - No data available	10.6		

In the event of fire: see section 5 11. TOXICOLOGICAL INFORMATION Information on toxicological effects 11.1 Acute toxicity No data available Inhalation: No data available Dermal: No data available No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Carbon Nanotubes) 2B - Group 2B: Possibly carcinogenic to humans (Carbon Nanotubes) 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Carbon Nanotubes) IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Carbon Nanotubes) 2B - Group 2B: Possibly carcinogenic to humans (Carbon Nanotubes) 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Carbon Nanotubes) No component of this product present at levels greater than or equal to 0.1% is identified NTP: as probable, possible or confirmed human carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen OSHA. **Reproductive toxicity** No data available Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation. Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information **RTECS:** Not available

	To the best of our knowledge, the chemical, physical, and toxicological properties have not been Thoroughly investigated.
12. E	
12.1	Toxicity No data available
12.2	Persistence and degradability No data available
12.3	Bioaccumulative potential No data available
12.4	Mobility in soil No data available
12.5	Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6	Other adverse effects No data available
13. D	ISPOSAL CONSIDERATIONS
13.1	Waste treatment methods
	Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
	Contaminated packaging Dispose of as unused product.
14. T	RANSPORT INFORMATION
	DOT (US) Not dangerous goods
	IMDG Not dangerous goods
	IATA Not dangerous goods
15. R	EGULATORY INFORMATION
	SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
	SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
	SARA 311/312 Hazards

	t To Know Compone	nts	
No components are su		usetts Right to Know Ad	ot.
Pennsylvania Right ⁻	To Know Component	s	
, ,	·	CAS-No.	Revision Date
Graphene Nanoplatele	əts	308068-56-6	
New Jersey Right To	Know Components		
		CAS-No.	Revision Date
Graphene Nanoplate	lets	308068-56-6	
California Prop. 65 C	components		
		s known to State of Cal	ifornia to cause cancer, birth
defects, or any other r	eproductive harm.		
OTHER INFORMATION			
	i		
Full text of H-Statem	ents referred to unde	er sections 2 and 3.	
Carc.	Carcinogenicity		
Eye Irrit.	Eye irritation		
H319	Causes serious eye i	rritation.	
H335	May cause respirator		
H351	Suspected of causing		
STOT SE		toxicity - single exposu	ire
HMIS Rating			
Health hazard:	2		
Chronic Health Hazard			
Flammability:	0		
	-		
Physical Hazard:	0		
NFPA Rating			
Health hazard:	2		
	0		
Fire Hazard:	0		
Fire Hazard: Reactivity Hazard:			
Reactivity Hazard: Further information	his information only as a s	supplement to other inforr	nation gathered by them. and
Reactivity Hazard: Further information Employers should use th	•	••	nation gathered by them, and
Reactivity Hazard: Further information Employers should use the should make independent	nt judgment of suitability of	of this information to ensu	nation gathered by them, and re proper use and protect the hea
Reactivity Hazard: Further information Employers should use the should make independent and safety of employees	nt judgment of suitability of suitability of suitability of suitability of suitability of suitability of suitab	of this information to ensu	re proper use and protect the he