


Nanotech Elite EMI Armour Paint

Item #: 905137

Product:	Nanotech Elite EMI Armour Paint
Distributor/ supplier/ manufacturer:	Nanotech Energy, Inc. 12100 Wilshire BLVD suite 800 Los Angeles, CA 90025
Phone number:	310-806-9202
Relevant identified uses of the substance or mixture	Laboratory chemicals, industrial Manufacturing of substances

Hazards Identification

Hazard Identification:	<p>GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)</p> <p>Flammable liquids (Category 3), H226. Skin Irritation (category 2), H315 Skin Sensitivity (category 1), H317 Eye Irritation (category 2A), H319 Respiratory Sensitivity (category 1), H334. Mutation. (Category 1B), H340. Carcinogen (Category 1B), H350 Aquatic Chronic (category 3), H412</p>	
<p>Hazard Statement(s)- GHS Label elements, including precautionary statements</p> <p>Hazard Statement(s) H226 H315 H317 H319 H320 H334 H340 H350 H412</p> <p>Precautionary Statement(s) P210 P233 P240</p>	<p>Signal word: Danger</p> <p>Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction Causes serious eye irritation Causes eye irritation May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause genetic defects May cause cancer Harmful to aquatic life with long lasting effects.</p> <p>Keep away from heat/sparks/ open flames/ hot surfaces. No smoking. Keep container tightly closed. Ground/ bond container and receiving equipment</p>	

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Hazards Identification (continued)

P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapor/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P271	Wear protective gloves/ eye protection/ face protection.
P280	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P304 +P340	IF ON SKIN (OR HAIR): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower
P303+ P361 +P353	IF ON SKIN (OR HAIR): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower
P312	Call a POISON CENTER or doctor if you feel unwell.

Composition / Information on Ingredients

Mixtures: Synonyms	Nanotech Elite EMI Armour Paint
Substance Name/ Synonyms	Graphene, Reduced Graphene Oxide
Substance Name/ CAS Number	Silver Coated Copper Powder 7440-50-8
Substance Name/ CAS Number	Hexamethylene-1.6-diisocyanate 28182-81-2
Substance Name/ CAS Number	4-chloro-alpha,alpha,alpha-trifluorotoluene 98-56-6
Substance Name/ CAS Number	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate 4098-71-9
Substance Name/ CAS Number	N-butyl acetate 123-86-4
Substance Name/ CAS Number	Petroleum 64742-95-6
Substance Name/ CAS Number	4-isocyanatosulphonyltoluene 4083-64-1
Substance Name/ CAS Number	Heptan-2-one 110-43-0
Substance Name/ CAS Number	Ethyl 3-ethoxypropionate 763-69-9
Substance Name/ CAS Number	2-methoxy-1-methylethyl acetate 108-65-6
Substance Name/ CAS Number	Hexamethylene-di-isocyanate 822-06-0

No components need to be disclosed according to the applicable regulations

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First Aid Measures

First Aid:	In case of eye contact Flush with plenty of water for 15 minutes as a precaution
	In case of skin contact Wash thoroughly with soap and plenty water.
	If inhaled If inhaled, move person into fresh air. If breathing is difficult, admin oxygen. If not breathing, give artificial respiration. Consult a physician.
	If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water

Firefighting Measures

Extinguishing Media	Means of extinction Use water spray, alcohol resistant foam, dry chemical or carbon dioxide
	For safety reasons unsuitable extinguishing agents: Water with full jet.
	Special hazards arising from the substance or mixture Not determined
	Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary

Accidental Release Measure

1	Personal precautions, protective equipment, and emergency procedures Wear protective equipment. Keep the area well ventilated. Keep away from ignition sources. Prevent the formulation of dust-air mixture.			
2	Environmental precautions Do not allow material to be released to the environment.			
3	Methods and materials for containment and cleaning up Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.			
4	Protective Action Criteria for Chemicals (PAC)			
	CAS#	PAC-1	PAC-2	PAC-3
	28182-81-2	7.8 mg/m ³	86 mg/m ³	510 mg/m ³
	4098-71-9	0.02 ppm	0.14 ppm	0.6 ppm
	123-86-4	5 ppm	200 ppm	3000 ppm
	110-43-0	150 ppm	670 ppm	4000 ppm
	763-69-9	1.6 ppm	18 ppm	110 ppm
	108-65-6	50 ppm	1000 ppm	5000 ppm
	822-06-0	0.018 ppm	0.2 ppm	3 ppm

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Handling and Storage

1	<p>Precautions for safe handling Ensure good ventilation/ exhaust at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.</p>
2	<p>Information about protection against explosions and fires: Keep ignition sources away- Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.</p>
3	<p>Conditions for safe storage, including any incompatibilities Keep container tightly sealed. Avoid all possible sources of ignition (Spark or flame).</p>

Exposure Controls/ Personal Protection

Control parameters	<p>Components with workplace control parameters The following components have PEL, TLV or other recommended exposure limits</p> <p>CAS# 4098-9 - REL: Short-term value: 0.18 mg/m³, 0.02 ppm - REL: Long-term value: 0.045 mg/m³, 0.005 ppm - TLV: Long-term value: 0.045 mg/m³, 0.005 ppm</p> <p>CAS# 123-86-4 - PEL: Long-term value: 710 mg/m³, 150 ppm - REL: Short-term value: 950 mg/m³, 200 ppm - REL: Long-term value: 710 mg/m³, 150 ppm - TLV: Short-term value: 712 mg/m³, 150 ppm - TLV: Long-term value: 238 mg/m³, 50 ppm</p> <p>CAS# 110-43-0 - PEL: Long-term value: 465 mg/m³, 100 ppm - REL: Long-term value: 465 mg/m³, 100 ppm - TLV: Long-term value: 233 mg/m³, 50 ppm</p> <p>CAS# 108-65-6 - WEEL: Long-term value: 50 ppm - REL: Long-term value: 710 mg/m³, 150 ppm - Ceiling limit value: 0.14 mg/m³, 0.02 ppm 10 minutes. - TLV: Long-term value: 0.034 mg/m³, 0.005 ppm</p>
Exposure Control	<p>Appropriate engineering controls General industrial hygiene practice The general precautionary measures for handling any chemicals should be followed. Keep away from all food and drinks Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eye and skin. Store protective clothing separately</p>
Personal Protective equipment	<p>Eye/face protection Use tightly sealed goggles</p> <p>Skin/ hand protection Handle with gloves and avoid all skin contact. Glove material must be impermeable and resistant to the product/ the substance/ the preparation.</p> <p>Body Protection Wear protective work clothes</p> <p>Respiratory protection Use suitable respirator when low concentrations are present. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.</p>

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Physical and Chemical Properties

Appearance	Form: liquid
Color	Copper
Odor	Product specific
Odor Threshold	Not determined
pH	Not determined
Melting point/ freezing point	Not determined
Initial boiling point and boiling range	124 °C (255.2 °F)
Flash Point	27 °C (80.6 °F)
Evaporation rate	Not determined
Flammability (solid, gas)	Flammable
Upper/lower flammability or explosive limits	Not determined
Percent Weight (w/w)	61%
Vapor pressure @ 20 °C	1.2 kPa (9 mm Hg)
Vapor density	Not determined
Relative density	1.5-1.6 g/mL
Water solubility	N/a
Partition Coefficient	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	50-100 cP (25 °C, fresh)
Explosive properties	Not determined
Oxidizing properties	Not determined

Stability and Reactivity

Reactivity	Not determined
Chemical stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No dangerous reaction known.
Conditions to avoid	Not determined
Incompatible material	Not determined
Hazardous decomposition products	No dangerous decomposition products knowns.

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Toxicological Information

Information on toxicological effects:	Acute toxicity LD/LC50 value that are relevant for classification:
	ATE (Acute Toxicity Estimate) Oral: LD50- 167,000 mg/kg (rat) Dermal: LD50- > 75,936 mg/kg Inhalative: LC50/4h- > 32.9 mg/l
	4098-71-9 Inhalative: LC50/4 h- 3 mg/ml (ATE)
	64742-95-6 Oral: LD50- > 6,800 mg/kg (rate) Dermal: LD50- > 3,400 mg/kg (rab) Inhalative: LC50/4 h- >10.2 mg/l (rat)
	822-06-0 Oral: LD50- 738 mg/kg (rat) Dermal: LD50- 593 mg/kg (rat) Inhalative: LC50/4 h- 3 mg/l (ATE)
	Skin corrosion/ irritation Irritant to skin and mucous membranes.
	Serious eye damage/ eye irritation Irritating effect.
Sensitization Sensitization possible through inhalation. Sensitization possible through skin contact.	
Additional toxicological information Harmful Irritant The product can cause inheritable damage.	

Ecological Information

General notes	No known significant effects.
Aquatic Toxicity	Not determined
Persistence and degradability	Not determined
Bio accumulative potential	Not determined
Mobility in soil	Not determined
Ecotoxic effects	Harmful to fish
Results of PBT and vPvB assessment	Not applicable
Other adverse effect	Not determined


Disposal Considerations

Waste from residues/unused products:	Offer surplus and non-recyclable solution to a licensed disposal company. Must not be disposed of together with household garbage. Do not allow product to reach sewage system
Contaminated packaging:	Dispose of as unused product must be made according to official regulations.

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Transport Information

DOT (US)	Paint
IMDG	Paint
IATA	Paint
Transport hazard class(es)	<p>MDG, IATA</p>  <p>Class: 3 flammable liquids Label: 3</p>
Packing group DOT, ADR, IMDG, IATA	III
Environmental hazards: Marine Pollutant:	No
Special precautions for user Danger code (kemler):	Warning: flammable liquids 30
Transport Additional information:	
-DOT	On passenger aircraft/rail: 60L On Cargo aircraft only: 220L
-ADR Expected quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
-IMDG Limited quantities (LQ) Expected quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

Regulatory Information

SARA 302 Components	None
SARA 313 Components	CAS# 4098-71-9 822-06-0
SARA 355 Components	CAS# 4098-71-9
SARA 311/312 Hazards	No SARA Hazards
California Prop. 65 Components	This product does not contain any chemicals known to state of California to Cause cancer, birth defects, or any other reproductive harm.

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Other Information

HMIS Rating	Health hazard: 2 Fire Hazard: 3 Reactivity: 0
NFPA Rating	Health Hazard: 2 Fire Hazard: 3 Reactivity Hazard: 0

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

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