


SAFETY DATA SHEET

Product:	<i>Dura Elite EMI Armour Paint (Base paint)</i>
Distributor / supplier / manufacturer:	Nanotech Energy, Inc. 323 Sunny Isles Blvd, 7th Floor Sunny Isles Beach, FL 33160
Phone number:	1 (800) 995-5491
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) 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.</p>	
Hazard Statement(s) - GHS Label elements, including precautionary statements - Hazard Statement(s)	<p>- Signal word: Highly flammable - Harmful.</p> <p>H226 Flammable liquid and vapor. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H360 May damage fertility or the unborn child. H402 Harmful to aquatic life. H412 Harmful to aquatic life with long lasting effects.</p>	

Precautionary Statement(s)		
P210	Keep away from heat / sparks / open flames / hot surfaces. No smoking.	
P233	Keep container tightly closed.	
P240	Ground/ bond container and receiving equipment.	
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.	
P280	Wear protective gloves / eye protection / face protection.	
P304 +P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
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

Substance Name / Synonyms	Graphene Reduced graphene oxide
Substance Name / CAS Number	Silver Coated Copper Powder 7440-50-8
Substance Name / CAS Number	Acetone 67-64-1
Substance Name / CAS Number	Xylene 1330-20-7
Substance Name / CAS Number	N-Butyl Acetate 123-86-4
Substance Name / CAS Number	2-Methoxy-1-methylethyl acetate 108-65-6
Substance Name / CAS Number	4-chloro-alpha,alpha,alpha-trifluorotoluene 98-56-6
Substance Name	Proprietary non-hazardous liquid

First Aid Measures

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

Extinguishing Media	<p>Means of extinction Carbon dioxide. Dry chemical powder. Fight larger fires with water spray or alcohol resistant foam. Do not use water.</p> <p>For safety reasons unsuitable extinguishing agents: Water with full jet. Special hazards arising from the substance or mixture. In combustion emits toxic fumes of carbon dioxide / carbon monoxide, nitrogen oxides and other chemicals.</p> <p>Advice for firefighters Wear self-contained breathing apparatus.</p>
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Accidental Release Measure

1	<p>Personal precautions, protective equipment, and emergency procedures Wear protective equipment. Keep unprotected persons away.</p>
2	<p>Environmental precautions Do not allow material to be released to the environment. Contain the spillage using bunding.</p>
3	<p>Methods and materials for containment and cleaning up Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust). Wash the spillage site with large amounts of water. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.</p>

Handling and Storage

1	<p>Precautions for safe handling Ensure good ventilation/ exhaustion 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. Only use original packaging.</p>

Exposure Controls/ Personal Protection

Control parameters	<p>Workplace exposure limits WEL (8 h) 50 ppm WEL (15 min) 100 ppm</p> <p>Hazardous ingredients: Acetone WEL (8 h): 1210 mg/m³ WEL (15 min): 3620 mg/m³ Xylene WEL (8h): 220 mg/m³ WEL (15 min): 441 mg/m³ N-Butyl Acetate WEL (8h): 724 mg/m³ WEL (15 min): 966 mg/m³ 2-Methoxy-1-methylethyl acetate WEL (8h): 274 mg/m³ WEL (15 min): 822 mg/m³</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>

Physical and Chemical Properties

Appearance	Form: liquid / slurry
Color	Copper brown
Odor	Aromatic
Odor Threshold	Not determined
pH	Not determined
Melting point / freezing point	Not determined
Initial boiling point	40 °C (104 °F)
Flash Point	-18 °C (-0.4 °F)

Evaporation rate	Moderate
Flammability	Flammable
Upper / lower flammability or explosive limits	Not determined
Percent Weight (w/w)	48%
Vapor pressure @ 20 °C	Not determined
Vapor density	Not determined
Relative density	1.75–1.85 g/mL
Water solubility	Insoluble
Partition Coefficient	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	4000 cP (25 °C, fresh)
Calculated VOC	44.6 g/100 g
Explosive properties	Not determined
Oxidizing properties	Non-oxidising

Stability and Reactivity

Reactivity	Not determined
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No dangerous reaction known.
Conditions to avoid	Flames, heat, and ignition sources.
Incompatible material	Not determined.
Hazardous decomposition products	Toxic fumes of carbon dioxide / carbon monoxide and nitrogen oxides.

Toxicological information

Information on toxicological effects:	<p>Acute toxicity: LD/LC50 value that are relevant for classification: ATE (Acute Toxicity Estimate)</p> <ul style="list-style-type: none"> • Acetone IVN RAT LD50 5500 mg/kg ORL MUS LD50 3 gm/kg ORL RAT LD50 5800 mg/kg • XYLENE ORL MUS LD50 2119 mg/kg ORL RAT LD50 4300 mg/kg SCU RAT LD50 1700 mg/kg • N-BUTYL ACETATE ORL MUS LD50 6 gm/kg ORL RAT LD50 10768 mg/kg • 2-METHOXY-1-METHYLETHYL ACETATE IPR MUS LD50 750 mg/kg ORL RAT LD50 8532 mg/kg <p>Skin corrosion / irritation Irritant to skin and mucous membranes.</p> <p>Serious eye damage / eye irritation Irritating effect.</p> <p>Sensitization Sensitization possible through skin contact.</p> <p>Additional toxicological information Irritant</p> <p>Carcinogenic categories N/A</p>
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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
Ecotoxicological 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. D10 Incineration on land. R1 solvent reclamation/regeneration.
Contaminated packaging:	Dispose of as unused product in regulated landfill site or other method for hazardous or toxic wastes.

Transport information

UN Number	1263
DOT (US)	Flammable liquids, n.o.s (Acetone, xylenes)
IMDG	FLAMMABLE LIQUID, N.O.S (ACETONE, XYLENES)
IATA	FLAMMABLE LIQUID, N.O.S (ACETONE, XYLENES)
Transport hazard class(es)	DOT, ADR, IMDG, IATA  Class: 3 flammable liquids Label: 3
Packing group DOT, ADR, IMDG, IATA	II
Environmental hazards: Marine Pollutant:	No
Special precautions for user Danger code (kemler):	Warning: Miscellaneous dangerous substances and articles 30
Transport Additional information: -DOT -ADR Expected quantities (EQ) -IMDG Limited quantities (LQ) Expected quantities (EQ)	On passenger aircraft/rail: 60L On Cargo aircraft only: 220L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

Regulatory Information

Hazard symbols	Highly flammable.  Irritant. 
Risk Phrases	R11: Highly flammable. R36: Irritating to eyes. R66: Repeated exposure may cause skin dryness or cracking. R67: Vapours may cause drowsiness and dizziness.
Safety phrases	S16: Keep away from sources of ignition - No smoking. S23: Do not breathe vapour / spray S36/37: Wear suitable protective clothing and gloves. S42: During fumigation / spraying wear suitable respiratory equipment.
VbF	All
Water hazard class	1

Other Information

Other information	This safety data sheet is prepared in accordance with EC Directive 2001/58/EC. FOR PROFESSIONAL USE ONLY. Read full instructions before use. IMPORTANT: This product contains hazardous materials and therefore appropriate personal protective equipment should always be used. Please refer to the label and consult the material safety data sheet for full handling instructions and personal protection information. These are available via your local stockist.
Risk phrases used in s.2	R11: Highly flammable. R36: Irritating to eyes. R66: Repeated exposure may cause skin dryness or cracking. R67: Vapours may cause drowsiness and dizziness. R10: Flammable. R20/21: Harmful by inhalation and in contact with skin. R38: Irritating to skin.

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