



SAFETY DATA SHEET

Trade name: Graphene Suspension

Revised September, 2021 GP 2.0.c

1. Identification of the substance/mixture and of the company/undertaking


1.1 Product identifier:

Product Name Graphene suspension
 Product Code S-ON30

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the Additive for enhancing electrical conductivity and physical properties.
 product

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier Enerage Inc. 
 Address No.5, Ligong 3rd Rd., Wujie Township, Yilan County 26841, Taiwan, R.O.C.
 Phone number 886-3-990-2100
 Fax 886-3-990-2500

1.4 Emergency phone number 886-3-990-2100

2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

Physical and Chemical hazards	Flammable liquids	Category 2
Health hazards	Skin Corrosion/Irritation	Category 3
	Serious Eye Damage/Eye Irritation	Category 2A
	Specific target organ toxicity, single exposure	Category 3 (Narcotic effects)

2.2 Label elements



Signal word Danger
 Hazard statements H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H360D May damage the unborn child.

Precautionary statements

Prevention P102 Keep out of reach of children
 P201 Obtain special instructions before use
 P202 Do not handle until all safety precautions have been read and understood
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 P211 Do not spray on an open flame or other ignition source.



SAFETY DATA SHEET

Trade name: Graphene Suspension

Revised September, 2021 GP 2.0.c

- 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/vapours/spray.
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P281 Use personal protective equipment as required.
- P284 Wear respiratory protection
- P285 In case of inadequate ventilation wear respiratory protection

Response

- P201 IF SWALLOWED
 - P330 Rinse mouth.
 - P331 Do NOT induce vomiting.
 - P313 Get medical advice/attention
- P303 IF ON SKIN (or hair)
 - P351 Rinse cautiously with water for several minutes.
 - P352 Wash with plenty of soap and water.
 - P353 Rinse skin with water/shower.
- P304 IF INHALED
 - P314 Call a POISON CENTER/doctor if you feel unwell.
 - P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 IF IN EYES
 - P338 Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 IF exposed or concerned
 - P313 Get medical advice/attention
 - P351 Rinse cautiously with water for several minutes.
- P337 If eye irritation persists
 - P313 Get medical advice/attention.
- P370 In case of fire
 - P374 Fight fire with normal precautions from a reasonable distance.
 - P376 Stop leak if safe to do so.
 - P378 Use water, carbon dioxide, dry chemical powder or alcohol resistant foam to extinguish.

Storage

- P402 Store in a dry place.
- P403 Store in a well-ventilated place.



SAFETY DATA SHEET

Trade name: Graphene Suspension

Revised September, 2021 GP 2.0.c

P404 Store in a closed container.

P405 Store locked up.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

3. Composition/information on ingredients

<u>Chemical name</u>	<u>CAS No.</u>	<u>Content (wt%)</u>
N-Methyl-2-pyrrolidone	872-50-4	90-95
1-Methyl-2-pyrrolidone		
NMP		
Graphene	1034343-98-0	5~10
Poly(vinylidene fluoride)	24937-79-9	2~5

4. First-aid measures

4.1 Descriptions of first-aid measures

General measures

In the case of prolonged irritation or other adverse effects, contact a doctor.

IF ON SKIN (or hair)

Wash with soap and water.

If skin irritation occurs, get medical advice/ attention.

Contaminated clothing should be removed and washed thoroughly before re-use.

IF INHALED

Remove from exposure to fresh air and call a poison center/ doctor to get medical advice/ attention.

If breathing is difficult, administer oxygen.

If breathing has stopped, begin artificial respiration immediately, and seek medical attention.

IF IN EYES

Flush eyes with water for at least 15 minutes.

If easy to do, remove contact lens.

Get medical attention

IF SWALLOWED

Rinse mouth with water and consult a physician.

Never give anything to an unconscious person.

4.2 Most important symptoms/ effects, acute and delayed

Symptoms

May cause irritation to skin, eyes and respiratory tract.

Hazards

No information about adverse effects due to exposure

4.3 Indication of immediate medical attention and special treatment needed.

Treatment

Symptoms may be delayed. Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, carbon dioxide, dry chemical powder or alcohol resistant foam.

Unsuitable extinguishing media

Water jet.



SAFETY DATA SHEET

Trade name: Graphene Suspension

Revised September, 2021 GP 2.0.c

5.2 Specific hazards arising from the substance or mixture	<p>In the event of combustion or thermal decomposition, this material may release carbon monoxide (CO) or carbon dioxide (CO₂), nitrogen oxides (NO_x).</p> <p>Flammable liquid and vapor.</p> <p>Can be ignited easily and burns vigorously.</p> <p>Vapors may cause a flash fire or ignite explosively.</p> <p>Vapors may travel considerable distance to a source of ignition and flash back.</p> <p>Prevent buildup of vapors or gases to explosive concentrations.</p>
5.3 Advice for firefighters	
Special protective equipment and precautions for fire-fighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Specific fire-fighting measures	<p>Cool containers exposed to flames with water until well after the fire is out.</p> <p>In case of fire and/or explosion do not breathe fumes.</p> <p>Keep away from any heat source or electronic circuits.</p> <p>Water may be ineffective in fighting the fire.</p>
6. Accidental release measures	
6.1 Personnel precautions, protective equipment and emergency procedures	<p>Evacuate personnel to safe areas.</p> <p>Remove all sources of ignition if safe to do.</p> <p>Should wear suitable protective equipment to prevent inhalation or skin contact.</p> <p>Should beware of the risk of slippage due to the material's low coefficient of friction.</p> <p>Keep upwind.</p>
6.2 Environmental precautions	<p>Prevent further leakage or spillage if safe to do so.</p> <p>Do not contaminate water sources or sewer.</p> <p>Avoid discharge into drains, water courses or onto the ground</p>
6.3 Methods and materials for containment and cleaning up	<p>Collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.</p> <p>Do not discharge into storm or sanitary sewers or groundwater.</p>
7. Handling and storage	
7.1 Precautions for safe handling	
Preventive measures	<p>(Exposure Control for handling personnel)</p> <p>Classified as a C1 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.</p> <p>This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations</p>



SAFETY DATA SHEET

Trade name: Graphene Suspension

Revised September, 2021 GP 2.0.c

Do not breathe dust/fume/gas/mist/vapors/spray.
 Avoid breathing dust/fume/gas/mist/vapors/spray.
 (Protective measures against fire and explosion)
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves and face protection.
 Use personal protective equipment as required.
 Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

Safety Measures/Incompatibility

7.2 Conditions for safe storage, including any incompatibilities

Recommendation for storage

Store in a well-ventilated place and keep cool.
 Keep container tightly closed
 Store locked up.
 Graphene is electrically conductive. Avoid accumulations of graphene in places where these accumulations could cause shorting of electrical switches, circuits or components since any dust can form a potentially explosive mixture in air.

8. Exposure controls/personal protection

8.1 Engineering controls

Provide adequate workplace ventilation. If vapor/dusts are generated through handling, local exhaust ventilation should be employed.
 Eye wash facilities and emergency shower must be available when handling this product.
 Respiratory protection may be needed for non-routine or emergency situations.
 Derived No Effect Level (DNEL) of N-Methyl-2-pyrrolidone (NMP)

<u>Application Area</u>	<u>Routes of Exposure</u>	<u>Health Effect</u>
Workers	Skin Contact	Long-Term Systemic Effects
Workers	Inhalation	Long-Term Systemic Effects

Predicted No Effect Concentration (PNEC) of N-Methyl-2-pyrrolidone (NMP)

<u>Compartment</u>	<u>Value</u>
Water	5 mg/l
Soil	0.0701 mg/kg



SAFETY DATA SHEET

Trade name: Graphene Suspension

Revised September, 2021 GP 2.0.c

Sea sediment	0.109 mg/kg
Marine water	0.025 mg/kg
Fresh water	0.25 mg/l
Fresh water sediment	1.09 mg/kg
Onsite sewage treatment plant	10 mg/l

8.2 Exposure controls

<u>Components</u>	<u>Type</u>	<u>Exposure limit(s)</u>	<u>Source</u>
N-Methyl-2-pyrrolidone	TWA	25 ppm 103 mg/m ³	Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.
	STEL	75 ppm 309 mg/m ³	Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

8.3 Personal protective Equipment

General

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Respiratory protection

An eye wash and safety shower must be available in the immediate work area. To minimize risk of over exposure to dust, vapor or fumes, it is recommended that a local exhaust system is placed above the equipment, and that the working area is properly ventilated.

Eye/face protection

If ventilation is inadequate, use certified respirator that will protect against dust/mist.

Skin and body protection

Wear suitable safety eyeglasses or chemical protective goggles or other face protection.

Hand protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

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.

Hygiene

Do not eat, drink or smoke when using the product.

Wash hands after handling.

Observe good industrial hygiene practices.

9. Physical and Chemical Properties



SAFETY DATA SHEET

Trade name: Graphene Suspension

Revised September, 2021 GP 2.0.c

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Color	Gray to black
Odor	Amine-like
Odor threshold	No data available
pH	No data available
Melting point	NMP: -24°C; Graphene: >3600°C
Initial boiling point	NMP: 202°C, 82~82 °C @13 hPa
Flash point	NMP: 91°C Closed cup
Auto-ignition temperature	NMP: 245 °C Graphene: dispersed dust cloud: >600°C
Flammability (solid, gas)	No data available
Flammable limit	1.3~9.5 %(V)
Evaporation rate	NMP: 0.03 (butyl acetate=1)
Vapor density	3.42
Vapor pressure	98 hPa @ 20 °C; 12.43 hPa @ 25 °C
Decomposition temperature	No data available
Density	0.9~1.0 g/cm ³ @20°C
Solubility in water	Graphene: Insoluble
Solubility (other)	No data available
Partition coefficient (n-Octanol/water)	-0.46

10. Stability and Reactivity

10.1 Reactivity	No data available.
10.2 Chemical stability	No decomposition if stored and applied as directed.
10.3 Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid	Heat, flames and sparks.
10.5 Incompatible materials	Strong oxidizing agents, Strong reducing agents, Alkali metals, Strong acids.
10.6 Hazardous decomposition products	Mainly carbon oxides, Nitrogen oxides occur under high temperature/fire conditions.

11. TOXICOLOGICAL INFORMATION

11.1 Information on the likely routes of exposure

Inhalation

Ingestion



SAFETY DATA SHEET

Trade name: Graphene Suspension

Revised September, 2021 GP 2.0.c

Skin contact

Eye contact

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation No data available.

Ingestion No data available.

Skin contact No data available.

Eye contact No data available.

11.3 Information on toxicological effects

Acute toxicity

Dermal LD 50, Rabbit: 8,000 mg/kg
OECD Test Guideline 402, LD 50, Rat, male and female: >5,000 mg/kg

Oral LD 50, Rat: 3.914 mg/kg
OECD Test Guideline 401, LD 50, Rat, male and female: 4.150 mg/kg

Inhalation OECD Test Guideline 403, LD 50, Rat, male and female, 4 h: 5.1 mg/l

Intraperitoneal LD 50, Mouse: 3,050 mg/kg
LD 50, Rat: 2,472 mg/kg

Intravenous LD 50, Mouse: 54.5 mg/kg
LD 50, Dog: 63.3 mg/kg
LD 50, Rat: 80.5 mg/kg

Subcutaneous LD 50, Rat: >2,000 mg/kg

Skin Corrosion/Irritation OECD Test Guideline 404, Rat: Irritations.

Serious Eye Damage/Eye Irritation OECD Test Guideline 405, Rabbit: Eye irritation.

Irritation

Respiratory or skin sensitization OECD Test Guideline 429, Sensitisation test, Guinea pig: Negative.
OECD Test Guideline 429, Local lymph node assay (LLNA), Mouse: Negative.

Germ cell mutagenicity

in vitro Ames test, Salmonella typhimurium; with and without metabolic activation: Negative

in vivo Mammalian cell gene mutation test, Chinese hamster ovary cells: Negative
Unscheduled DNA synthesis assay: Negative.
OECD Test Guideline 474, Mouse, male and female, Bone marrow: Negative.
OECD Test Guideline 475, Chinese hamster, male and female, Bone marrow: Negative.

Carcinogenicity Did not show carcinogenic effects in animal experiments.

Reproductive toxicity Damage to fetus possible.

Specific target organ toxicity

Single exposure May cause respiratory irritation.



SAFETY DATA SHEET

Trade name: Graphene Suspension

Revised September, 2021 GP 2.0.c

Repeated exposure	No data available.
Aspiration hazard	No data available.
Other effects	Prolonged or repeated exposure may cause:, Vomiting, Diarrhoea, Abdominal pain, Rats exposed to N-methyl-2-pyrrolidinone at a concentration of 1 mg/L as an aerosol for 10 days showed depletion of hematopoietic cells in the bone marrow and atrophy of the lymphoid tissues of the thymus, spleen, and lymph nodes. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Bone marrow - Irregularities - Based on Human Evidence

12. Ecological Information

12.1 Ecotoxicity

Fish

Specific substance(s)

N-Methyl-2-pyrrolidone	LC 50, Oncorhynchus mykiss, 96 h: >500 mg/l LC 50, Leuciscus idus (Golden orfe), 96h: >500 mg/l LC 50, Other fish, 96h: 4,000 mg/l
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Aquatic invertebrates

Specific substance(s)

N-Methyl-2-pyrrolidone	DIN 38412, LC 50, Water flea (Daphnia magna), 24 h: >1,000 mg/l EC 50, Water flea (Daphnia magna), 24 h: >1,000 mg/l EPA-660/3-75-009, Static test, EC 50, Palaeomonetes vulgaris (Grass shrimp), 96h: 1.107 mg/l
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Algae

Specific substance(s)

N-Methyl-2-pyrrolidone	DIN 384112, Static test EC 50, Desmodesmus subspicatus (green algae), 72h: 672,8 mg/l
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Bacteria

Specific substance(s)

N-Methyl-2-pyrrolidone	ISO 8192, Static test, EC50, Activated sludge, 0.5h: > 600 mg/l Static test, EC10, Activated sludge, 48h: 100 mg/l LC 50, Bacteria: > 9.000 mg/l EC 10, Pseudomonas putida, 17h: 9.000 mg/l
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12.2 Persistence and degradability

Biodegradation

90% Readily biodegradable.
OECD Test Guideline 301C (28 d), Aerobic: 73% Readily biodegradable.

BOD

1,100 mg/g



SAFETY DATA SHEET

Trade name: Graphene Suspension

Revised September, 2021 GP 2.0.c

COD	1,600 mg/g
12.3 Bioaccumulative potential	
Bioaccumulation	No data available.
Bioconcentration factor (BCF)	No data available on bioaccumulation.
Log Octanol/Water Partition Coefficient:	-0.46 @25°C
12.4 Mobility in soil	The product is water soluble and may spread in water systems.
12.5 Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other adverse effects	No data available.
13. Disposal considerations	
13.1 Waste Code	No data available.
13.2 Disposal methods	Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. No mixing with other waste. Leave chemicals in original containers.
13.3 Empty containers	Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.
14. Transport Information	
DOT (U.S. Department of Transportation)	
UN number	No data available.
UN proper shipping name	No data available.
Transport hazard class(es)	No data available.
Class	No data available.
Label(s)	No data available.
Packing group	No data available.
Marine pollutant	No
Special precaution for user	Not classified as Dangerous Goods.
IATA (International Air Transport Association)	
UN number	No data available.



SAFETY DATA SHEET

Trade name: Graphene Suspension

Revised September, 2021 GP 2.0.c

UN proper shipping name	No data available.	
Transport hazard class(es)	No data available.	
Class	No data available.	3
Label(s)	No data available.	3
Packing group	No data available.	
Marine pollutant	No	
Special precaution for user	Not classified as Dangerous Goods.	

IMDG (International Maritime Dangerous Goods)

UN number	No data available.
UN proper shipping name	No data available.
Transport hazard class(es)	No data available.
Class	No data available.
Label(s)	No data available.
EmS No.	No data available.
Packing group	No data available.
Marine pollutant	No
Special precaution for user	Not classified as Dangerous Goods.

14.1 Environmental hazards

MARPOL Annex III - Prevention of pollution by harmful substances

Marine pollutants (yes/no) no

14.2 Special precautions for user No data available.

14.3 Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Remarks No data available.

15. Regulatory Information

U.S. Federal Regulations

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Authorizations and/or restrictions on use

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

N-methyl-2-pyrrolidone

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

N-methyl-2-pyrrolidone

Safe Work Australia

HAZARDOUS CHEMICAL.



SAFETY DATA SHEET

Trade name: Graphene Suspension

Revised September, 2021 GP 2.0.c

Classification of the chemical

Flammable liquids	Category 4
Skin Irritation	Category 2
Eye Irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Toxic to Reproduction	Category 1B

OSHA Hazards

Combustible liquid	Yes
Skin irritation	Moderate
Eye irritation	Moderate
Respiratory irritation	Moderate
Teratogen	Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 extremely hazardous substances

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazardous Chemicals

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313 (TRI Reporting)

1-Methyl-2-pyrrolidone 872-50-4

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

Massachusetts Right-To-Know Substance Lis

Listed as: 1-Methyl-2-pyrrolidinone

Pennsylvania Right-To-Know Hazardous Substances

Listed as: 1-Methyl-2-pyrrolidinone

New Jersey Worker and Community Right-To-Know Component

Listed as: 1-Methyl-2-pyrrolidinone

California Proposition 65



SAFETY DATA SHEET

Trade name: Graphene Suspension

Revised September, 2021 GP 2.0.c

Listed as: 1-Methyl-2-pyrrolidinone

International regulation

Montreal protocol	Not applicable
Stockholm convention	Not applicable
Rotterdam convention	Not applicable
Kyoto protocol	Not applicable

Inventory status

Australia	Inventory of Chemical Substances (AICS)	On or in compliance with the inventory
USA	The Toxic Substances Control Act (TSCA)	On or in compliance with the inventory
Japan	The inventory of existing and new chemical substances (ENCS)	On or in compliance with the inventory
Japan	Japan CHEMicals Collaborative Knowledge database	On or in compliance with the inventory
EU	European Inventory of Existing Commercial Chemical Substances (EINECS)	On or in compliance with the inventory
EU	European List of Notified Chemical Substances (ELINCS)	On or in compliance with the inventory
EU	No-longer Polymers (NLP)	On or in compliance with the inventory
Canada	Domestic Substances List (DSL) Inventory	On or in compliance with the inventory
Philippines	Inventory of Chemicals/ Chemical Substances (PICCS)	On or in compliance with the inventory
Korea	Existing Chemicals Inventory (KECI)	On or in compliance with the inventory
China	Inventory of Existing Chemical Substances (IECSC)	On or in compliance with the inventory
Mexico	National Inventory of Chemical Substances of Mexico (INSQ)	On or in compliance with the inventory
New Zealand	Inventory of Chemical Substances	On or in compliance with the inventory
Taiwan	National Existing Chemical Inventory (NECI)	On or in compliance with the inventory

16. Other Information

Hazard Ratings

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
HMIS	No data available	No data available	No data available
NFPA	2	2	0

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Date of the latest revision 2021/04/13

DISCLAIMER:

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Information contained in this Safety Data Sheet is to the best of our knowledge and believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application etc. It is up to the user/distributor to ensure that the information contained in the material safety data sheet is relevant



SAFETY DATA SHEET
Trade name: Graphene Suspension
Revised September, 2021 GP 2.0.c

to the product manufactured or sold as the case may be. Enerage Inc. makes no warranties, expressed or implied, in respect of the adequacy of this document for any particular purpose.



Graphage