



Trade name:

HSMG™ High Strength Metallurgical Graphene™ - Graphene sheets.

Revised April 2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **HSMG™ High Strength Metallurgical Graphene™ - Graphene sheet.**

Common Names: HSMG Graphene / HSMG on PMMA

Manufacturer: Advanced Graphene Products sp. z o.o.

Ul. Żeromskiego 19/1

65-066 Zielona Góra, Poland

2. HAZARD IDENTIFICATION

Potential health effects: Not hazardous in regular handling, however, all users should follow good laboratory practices..

3. COMPOSITION/INFORMATION ON INGREDIENTS

Material: Graphene on PMMA substrate.

4. FIRST AID MEASURES

General: No extraordinary measures required.

Inhalation: Please seek medical treatment in case of health issues.

Eye contact: Rinse opened eye for several minutes under running water. If irritation still persist, please consult a medical doctor.

Skin contact: The product is not skin irritating.

Ingestion: Rinse mouth with water.

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



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www.advancedgrapheneproducts.com



5. FIRE FIGHTING MEASURES

Suitable extinguishing measures: Please use fire fighting measures suitable for the environment.

Other combustion hazards: No extraordinary measures required.

Protective equipment: Please wear a self-contained breathing apparatus and protective clothing to prevent contact with eyes, skin and lungs.

6. ACCIDENTAL RELEASE MEASURES

Accidentally released material should be collected mechanically and disposed of using suitable containers. The cleanup should be maintained with care.

Additional personnel: Not required.

Environmental information: Do not allow material to be released to the environment without proper governmental permits.

7. HANDLING AND STORAGE

Storage: Graphene should be stored in a cool, dry place in suitable containers. No extraordinary means necessary.

Advice on Safe Handling: No extraordinary requirements.

8. EXPOSURE CONTROL/PERSONAL PROTECTION Exposure Guidelines

General protective and hygienic measures: Regular measures should be maintained while handling. Breathing

equipment: Not required. Hands protection: Not required. Eye protection: Safety glasses. Body protection:

Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: One atom thick graphene sheet on PMMA substrate.

Color: Colorless.

Odor: Odorless.



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Flash point: n/a

Vapor density: n/a

Flammability: Product is not flammable.

Solubility in water: Insoluble.

Evaporation Rate: n/a.

Ignition temperature: Not determined.

10. STABILITY AND REACTIVITY

This material is stable. Contact with strong oxidizing agents, fluorine, or chlorine trifluoride should be avoided. There are no known hazardous decomposition products.

11. TOXICOLOGICAL INFORMATION

Irritant effect on skin: not determined

Irritant effect on eyes: not determined

Carcinogenicity: not determined

12. ECOLOGICAL INFORMATION

Graphene: is not biodegradable. No reliable data regarding its bioaccumulation or mobility in the environment is known. No reliable data to suggest that it should be considered an environmental hazard.

PMMA: Generally not hazardous. Do not allow material be released to the environment without proper governmental permits.

13. DISPOSAL DATA

Dispose of in accordingly to local regulations.

14. TRANSPORT INFORMATION

This material is not defined under US DOT, IMDG, GGVSee, or ICAO/IATA regulations as a hazardous substance.



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15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture labelling according to Regulation (EC) No 1272/2008: n/a

Information about limitation of use: only for qualified use.

16. OTHER INFORMATION

This information is based on our present state of knowledge, our research and third party information. Advanced Graphene Products sp z o.o. takes no responsibility on the accuracy of any third-party information regarding the product, therefore, cannot guarantee any specific properties others than mentioned in the product description.



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