



Material Safety Data Sheet

1 Identification of the substance / Preparation and of the company

Production Name	AIGI 38	Flexible Graphite Sheet
Date of Preparation	2014.1.7	
Company	AIGI Environmental Incorporation 81Suyuan Ave., Nanjing, China 211100	
	Tel	0086 25 52788148 Fax 0086 25 52788149
For Chemical Emergency	800 828 9829	

Application

Graphite sheet is made from naturally occurring graphite flakes, after processing the graphite from its mined ore state to purify and expand it, the flakes are calendared into pure graphite sheets with no binders or fillers. With the lack of binders and fillers there is no significant volume loss in gaskets being used at high temperatures and the gaskets will not harden like compressed fibre gaskets containing elastomer binders.

2 Composition / Information on ingredients

Ingredients	CAS-No.	EC-No.
Graphite	7782-42-5	231-955-3

3 Hazards Identification

Identification of danger: In its form as supplied no hazards known.

Risk of explosion: No explosion risk.

4 First Aid Measures

Inhalation	Not applicable
Skin Contact	Wash skin with soap and water. Consult physician if irritation develops
Eye Contact	Not applicable
Ingestion	Not applicable

5 Fire-Fighting Measures

Extinguishing Methods	Water, Carbon Dioxide, dry chemical or foam
Special Fire Fighting Measures	When Firefighting, breathing apparatus and eye protection have to be worn against dust and fumes and burning rubber

6 Accidental Release Measures

Personal Precautions	Refer to Section 8.
Environmental Precautions	No dangers known
Methods of Clean Up	No special steps requested, refer to Section 13 for advice.

7 Handling and Storage

Handling	Refer to Section 8. Gathering of graphite will cause electronic short circuit.
Storage	Store in a cool, dry area

8 Exposure Controls / Personal Protection

Hazardous materials	Health tolerance limit $< 4\text{mg}/\text{m}^2$.
Respiratory Protection	Not normally needed. If the concentration limit of graphite particles exceeds, it is recommended to wear a protective mask.
Ventilation	No special Requirements.
Protective Gloves	Not normally needed.
Eye Protection	Safety glasses are recommended.

9 Physical and Chemical Properties



Physical state:	Solid	Vapour pressure @20 °C	Not applicable
Color	Dark Gray	pH	Not applicable
Boiling point	Not applicable	Density	Not applicable
Melting point	Not applicable	Unit volume weight	Not applicable
Flash point	Not applicable	Ratio (Water/Oil)	Not applicable
Viscosity	Not applicable	Vapour density (air=1)	Not applicable
Autoignition temp.	Not applicable	Rate of evaporation(ether=1)	Not applicable
Explosion limit	Not applicable	Solubility in water	Negligible
Odour	Nil	Other	Nil

10 Stability and Reactivity

Stability	Stable
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and other toxic fumes.
Conditions to Avoid	None.
Materials to Avoid	Strong oxidant

11 Toxicological Information

Primary Route of Exposure Under Normal Use:	Graphite dust inhalation or contact with skin and eyes.Exposure to graphite dust can aggravate the condition of people with respiratory injury
Acute effects:	Graphite dust may irritate skin, eyes and nose.
Chronic effects:	Repeated inhalation of graphite dust for a long time may damage the lungs.Symptoms include coughing, shortness of breath and decreased lung function.

12 Ecological Information

Mobility:	Insoluble in water.
Degradability:	Inorganic substance

13 Disposal considerations

Check local , state and national / federal regulations and comply with the most stringent requirement.

14 Transport Information

Code of dangerous goods	Non hazardous goods, UN Number is not applicable.
Road shipment (A.D.R.), Rail shipment (RID)	Unregulated
Sea shipment (IMDG):	Unregulated
Air shipment (IATA):	Unregulated
Marine pollutants :	None.

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the accuracy of the data or the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.