

# SAFETY DATA SHEET

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#### **SECTION 1. IDENTIFICATION**

Product Name: Graphite Felt

CAS #: 7782-42-5

Relevant identified uses of the substance: Scientific research and development

Supplier details:

Stanford Advanced Materials

E-mail: sales@samaterials.com

Tel: (949) 407-8904

Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.

### **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Formula: C

Molecular weight: 12.01 g/mol

CAS-No.: 7782-42-5

EC-No.: 231-955-3

# SECTION 4. FIRST AID MEASURESDescription of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or

in section 11

Indication of any immediate medical attention and special treatment needed

No data available

# **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing Vapors, mist or gas.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

# **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for

combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s)Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# **SECTION 8. EXPOSURE CONTROLS/PERSONAL**

#### **PROTECTION**

Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such

as NIOSH (US) or EN 166(EU).

Skin protection

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. Wash and dry hands.

**Body Protection** 

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use

type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved

under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	:		:	; '		:
Form: Powder or			us forms			
Colour: Black/ Da	ark grey	/ <sup>:</sup>			, ;	
Odor						
odourless		1,			١,	
Odor Threshold	;		:	; '		:
No data available pH	•	,i		٠,	.:	
No data available	<b>)</b>	;			;	
Melting point/free	zing po				,	
Melting point/rang	ge: 3,6	52 <b>-</b> 3,6	97 <sup>°</sup> °C (6,	606 -6,	687 °F)	-lit.
Initial boiling poin	it and b	oiling i	range	٠.,	. :	
No data available	)					
Flash point	; ' '	1,		: ' '	1,	
No data available	•		;	,		
Evaporation rate	:	1	;	;	1	:
No data available	<b>,</b> ,	.;		٠.,	. :	
Flammability (sol	id, gas	)				
No data available	÷ ' ' '	1,			1,	
Upper/lower flam	mabilit	y or ex	plosive lir	nits		:
No data available	Vapor	pressu				
No data available	•			1	, ;	
Vapor density						
No data available	; ' '	1,		111	١.	
Relative density	;		;	; '		:
No data available	<b>)</b>					
Water solubility	'.	.'		' '	, '	
slightly soluble		:		ļ. (	!	
Partition coefficie	nt: n-o	ctanol/	water	•		

No data available

Auto-ignition		: '	; '		: '	; '		; '	;	
temperature										
No data available	. '		· · ·	. '		· · ·				.:
Decomposition temperat	ure									
No data available	1.		:	1,			1.		:	:.
Viscosity		:	; '		;'	; '		:'	:	: '
No data available	;			;			1		٠,	:
Explosive properties	1		,	1			,		,	
No data available						111			: ' '	
Oxidizing properties										
No data available		: '	: '		;	;		;	:	
Other safety information	.:		٠,			4.			٠.	.:
No data available										
- i,	· .		;				· .		;	· · · · ·
SECTION 10. S	TAB	ILITY	AND	RE	ACTIV	ΊΤΥ		:'	:'	: •
Reactivity			٠.,	, ;		1	.:		· .	.:
No data available										
Chemical stability	1,		: ' '	1,			1,		: ' '	٠.
Stable under recommend	ded sto	orage con	ditions.							
Possibility of hazardous	reactio	ns								
No data available	.1		'''	, 1		10.	, 1		٠.	.:
Conditions to avoid										
No data available	1.	• • •		1,		111	1,		:	:.
Incompatible materials		; '	; '		; '	; '		;	:	
Strong oxidizing agents										
Hazardous decomposition			'.	, '		',	, '		·.	
Other decomposition pro	ducts	- No data	availab	ole			!		:"	:
In the event of fire: see s	ection						',		,	
						, 1				

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects Acute toxicity LD50 Oral - Rat - female - > 2,000 mg/kg (OECD Test Guideline 423) LC50 Inhalation - Rat - male and female - 4 h - 2,000 mg/m3 (OECD Test Guideline 403) Dermal: No data available No data availableSkin corrosion/irritation Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405) Respiratory or skin sensitisation - Mouse Did not cause sensitisation on laboratory animals. (OECD Test Guideline 429) Germ cell mutagenicity in vitro assay S. typhimurium Result: negative Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

#### ACGIH:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP:

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

Repeated dose toxicity - Rat - male - Feed - No observed adverse effect level - 813 mg/kg

RTECS: MD9659600

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity** 

Toxicity to fish

semi - static test LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates.

static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h

(OECD Test Guideline 202) Toxicity to algae

static test EC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h

(OECD Test Guideline 201)Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

No data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

# SECTION 14. EXPOSURE CONTROLS/PERSONAL PROTECTION

DOT (US)

Not dangerous goods

**IMDG** 

Not dangerous goods

#### **SECTION 15. REGULATORY INFORMATION**

SARA 302 Components

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

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts/Pennsylvania/New Jersey Right To Know Components

Graphite...

CAS-No.: 7782-42-5

Revision Date: 1989-08-11

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.

### **SECTION 16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.