

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Carbon Foam

CAS #: 7440-44-0

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

Classification according to Regulation (EC) No 1272/2008

The substance is not classified as hazardous to health or the environment according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

N/A

Information concerning particular hazards for human and environment:

No data available

Hazards not otherwise classified

No data available

Labelling according to Re										
N/A	.''		. :	. ' '		. :	. ' '		. :	, '
Hazard pictograms										
N/Å		· · .	:		1	; ' '		``.	: ' '	
Signal word		: .		1 1	: .			: .		
N/A Hazard statements	.**		. :	.**			.**		. :	. '
N/A					,	;		1,		
WHMIS classificationNot	contro	lled								
Classification system										:
HMIS ratings (scale 0-4)				, ' '			, * *			, '
(Hazardous Materials Ide	entificat	tion Syste	em)							
Health (acute effects) =	1,,	4,			1	: ' '		4.	: ' '	
Flammability = 1		,								
Flammability = 1 Physical Hazard = 1	,			,	, ,					•
Other hazards				. * *						. '
Results of PBT and vPvE	3 asses	ssment								
PBT:	٠٠,	1	: ' '	• • •	· .		٠٠,	1.	: ' '	
N/A vPvB:	: '	: .	. :	: '	: .	. :	: '	:.	. :	
N/A			. :							. '
SECTION 3. CO										
Substances CAS No / Substance Na										

Label elements

7440-44-0 Carbon

Identification number(s):

EC number:

SECTION 4. FIRST AID MEASURES

Description of first aid measures

If inhaled:

Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

In case of skin contact:

Immediately wash with soap and water; rinse thoroughly.

Seek immediate medical advice.

In case of eye contact:

Rinse opened eye for several minutes under running water. Consult a physician.

If swallowed:

Seek medical treatment.

Information for doctor

Most important symptoms and effects, both acute and delayed

No data available

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:Carbon monoxide and carbon dioxide

Advice for firefighters

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Environmental precautions:

Do not allow product to enter drains, sewage systems, or other water courses.

Do not allow material to penetrate the ground or soil.

Methods and materials for containment and cleanup:

Pick up mechanically.

Prevention of secondary hazards:

No special measures required.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe handling

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Information about protection against explosions and fires:

No data available

Conditions for safe storage, including any incompatibilities
Requirements to be met by storerooms and receptacles:
No special requirements.

Information about storage in one common storage facility:

Do not store together with acids.

Store away from oxidizing agents.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well-sealed containers.

Specific end use(s)

No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters

Components with limit values that require monitoring at the workplace: None.

Additional information:

No data

Exposure controls

Personal protective equipment

Follow typical protective and hygienic practices for handling chemicals.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Maintain an ergonomically appropriate working environment.

Breathing equipment:

Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Inspect gloves prior to use. Suitability of gloves should be determined both by material and quality, the latter of which may vary by manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes) 480

Glove thickness

0.11 mm

Eye protection:

Safety glasses

Body protection:

Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Form: Solid in various forms

Color: Black or dark gray

Odor: No data available

Odor threshold: No data available.

pH: N/A

Melting point/Melting range: No data available

Boiling point/Boiling range: No data available

Sublimation temperature / start: No data available

Flammability (solid, gas)

No data available.

Ignition temperature: No data available

Decomposition temperature: No data available

Autoignition: No data available.

Danger of explosion: No data available.

Explosion limits:

Lower: No data available

Upper: No data available Vapor pressure: N/A

Density at 20 °C (68 °F): 2.26 g/cm

3

(18.86 lbs/gal)

Relative density

No data available.

Vapor density

N/A

Evaporation rate

N/A

Solubility in Water (H

2

O): Insoluble

Partition coefficient (n-octanol/water): No data available.

Viscosity:

Dynamic: N/A

Kinematic: N/A

Other information

Reactivity

No data available

Chemical stability

SECTION 10. STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used at						
Possibility of hazardous reactions						
Reacts with strong oxidizing agents						
Conditions to avoid						
No data available	: "	• • •		: ' '		1.
Incompatible materials: Acids				.:		
Oxidizing agents		. * *			. * *	
Hazardous decomposition products:						
Carbon monoxide and carbon dioxide	:**	• • •	10	: ' '	٠,	14.
SECTION 11. TOXICOLO						
SECTION 11. TOXICOLO)GIC#	AL IN	IFORI	MATIC	ON-	*:
SECTION 11. TOXICOLO Information on toxicological effects	OGIC <i>A</i>	AL-IN	IFORI	MATIC :··	ON	
SECTION 11. TOXICOLO Information on toxicological effects Acute toxicity:	OGICA	AL IN	IFORI	MATIC	ON	e toxicity
SECTION 11. TOXICOLO Information on toxicological effects Acute toxicity: The Registry of Toxic Effects of Chem data for this substance.	ical Subs	AL IN	IFORI	MATIC S) contain	ON ns acut	e toxicity

Eye irritation or corrosior	ղ:									
May cause irritation										
Sensitization:	. ' '			. ' '	,		.''		. :	. ' '
No sensitizing effects kn	own.									
No sensitizing effects κη Germ cell mutagenicity:		1	: ' '	'',	1.	: ' '	٠٠,	1.	: '	٠٠,
No effects known.										
Carcinogenicity:No class EPA, IARC,	ificatio	n data on	carcino	genic p	properties	of this i	materia	l is availab	ole from	the
NTP, OSHA or ACGIH.										
Reproductive toxicity:			: ' '		1	: ' '		1	: '	٠٠,
The Registry of Toxic Eff	fects of	f Chemica	l Substa	ances (RŢECS) c	ontains	reproc	luctive dat	a for th	is
substance.										
Specific target organ sys	tem to	xicity - rep	eated e	exposu	re:		. ' '			. ' '
No effects known.										
Specific target organ sys							''.	',		
No effects known.									, ,	: '
Aspiration hazard:									,	
No effects known.	,	,		,				,		,
Subacute to chronic toxic	city:		: ' '							
No effects known.										
Additional toxicological in	nforma	tion:							. :	
To the best of our knowle	edge th	ne acute a	nd chro	nic tox	icity of this	sübsta	ance is	not fully kr	nown.	,
Carcinogenic categories										
OSHA-Ca (Occupational	Safety	/ & Health	Admini	stration	n)' · ,			4.		
Substance is not listed.					:					
					1 1					
1.1				1 1			1.1			1.1

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity:

No data available									
Persistence and degradability	/								
No data available		. :						. :	
Bioaccumulative potential									
No data available				'''	; ' '	'''	''. 	:	٠٠.
Mobility in soil	: .	. :						. :	: '
No data available									
Additional ecological information			,	,		,	,		
Avoid transfer into the environ	nment.	111			: ' '		4.		
Results of PBT and vPvB ass	sessment								
PBT:		. :						. :	: '
N/A									
vPvB:									
N/A	4	: "	• • •	1			4.	: ' '	
Other adverse effects									
No data available		. :			. :			. :	
	() () () () () () () () () ()			1 1		,	1 1		
CECTION 42 DICE		CO1	ICIDI		IONC				
SECTION 13. DISP	USAL	. CON	וטוסו	EKAI	ION2		1.	: ' '	٠٠,
Waste treatment methods									
Recommendation									
Consult official regulations to	ensure p	roper dis	sposal.		. :	, ' '		. :	
Uncleaned packagings:									
Recommendation:	14	: "	• • •	14.	: ' '	٠٠,	11,	: ' '	٠٠.
Disposal must be made acco	rding to o	fficial re	gulation	is.	. :		: .		

SECTION 14. TRANSPORT INFORMATION

UN-Number

DOT, ADN, IMDG, IATA

N/A					, ,						. :	
LIN pro	ner shinni	na nan	ne									
DOT, A	ADN, IMDO	S, IATA	A		. :			. :	. * *		. :	
N/A												
Transp	ort hazard	class(es)	``.	: ' '		1.		1.1	1.	:	
DOT, A	ADR, ADN	, IMDG	i, IATA									:
Class N/A	• :			• :		.0	• :	.:		• ;		
Packin	g group							111		4,		
DOT, I	MDG, IATA	Д										
N/A		. :									. :	
Eņviro	nmental ha	azards:										
N/A												
Specia	l precautio	ns for	user	4	: "		1	; * *		4.	: ' '	
N/A												
Transp	ort in bulk	accord	ding to	Annex II	of MAR	POL73	/78 and	the IBC (Code			
N/A			. * *		. :	. * *			. * *	. :	. :	
Transp	ort/Additio	nal info	ormatic	n:								
DOT	1.	: ' '		1	: ' '		1.	: ' '		1.	: ' '	
Marine	Pollutant	(DOT):										
No												
. * *												
SEC	TION 1	15. R	EGL	JLATO	ORY	INFC	RMA	TION	ν,	· .	:''	• • ,

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

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

All components of this product are listed on the Canadian Domestic Substances List (DSL).

SARA Section 313 (specific toxic chemical listings)

Substance is not listed.

California Proposition 65

Prop 65 - Chemicals known to cause cancer

Substance is not listed.

Prop 65 - Developmental toxicity

Substance is not listed.

Prop 65 - Developmental toxicity, female

Substance is not listed.

Prop 65 - Developmental toxicity, male

Substance is not listed.

Information about limitation of use:

For use only by technically qualified individuals.

Other regulations, limitations and prohibitive regulations

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.

Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No

1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use)Substance is not listed.

REACH - Pre-registered substances

Substance is listed.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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

