

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Platinum on Carbon

CAS #: 7440-06-4

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

Label e	lements	٠										
	ng accordir	ng to R	egulati	on (EC) N	o 1272/	2008						
N/A	.''	. '		.'			. '				.''	. :
	pictogram											
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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	. "		. "			. '			. · ·	.·' .
CAS No. / Substa	nce Nar	ne:								
7440-06-4 Platinu	ım	:	1.	; ' '	;	1,	: ' '	}	1,	: ' '
Identification num	ber(s):									
EC number:		1			1	'		,	,	
231-116-1						'				.·' .
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SECTION 4	FIR	ST A	AID ME	EASL	JRES		1			
Description of firs				,						
General informati	on		, '	. '	1 1	'	.'		.'	.'
No special measu	ıres requ	uired.	:	: ' '	:	1.			:	
If inhaled:										
Seek medical trea	atment in	n case	of compla	aints.						
In case of skin co	ntact:			, '		, '	, '			
Generally the pro-	duct doe	es not i	rritate the	skin.						
In case of eye con	ntact:	:	1,	: ' '	;		: ' '		1,	: ' '
Rinse opened eye	e for sev	eral m	inutes un	der run	ning wa	ater. If sym	nptoms	persist	consult a	
If swallowed:	·			'			1			· '
If symptoms persi	ișt consi	ult doct	or.	, '						
Information for do	ctor									
Most important sy	elayed	: ' '	;	1,	: ' '					
No data available									1 1	
Indication of any i									1	
No data available							. '			.:' .

SECTION 5. FIREFIGHTING MEASURES

Extinguishing mediaSuitable extinguishing agents

Special powder for metal fires. Do not use water.

For safety reasons unsuitable extinguishing agents

Water

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Platinum oxide

Advice for firefighters

Protective equipment:

No special measures required.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Not required.

Environmental precautions:

Do not allow material to be released to the environment without official permits.

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 special measures required.

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:

Not required.

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: No further data; see section 7.

Control parameters

Components with limit values that require monitoring at the workplace:

7440-06-4 Platinum (100.0%)

PEL (USA) Long-term value: 0.002 mg/m

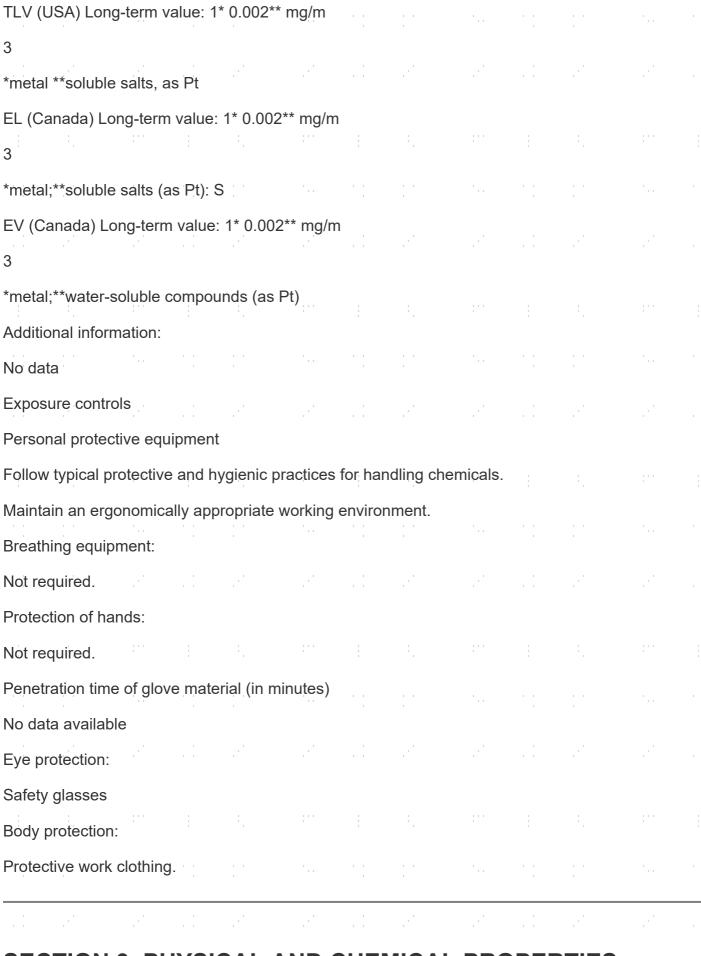
3

soluble salts, as Pt

REL (USA) Long-term value: 1* 0.002** mg/m

3

*Metal **soluble salts, as Pt



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Form: Solid in various forms

Color: Silvery-white

Odor: Odorless

Odor threshold: No data available.

pH: N/A

Melting point/Melting range: 1768.4 °C (3215 °F)

Boiling point/Boiling range: 3825 °C (6917 °F)

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: Product does not present an explosion hazard.

Explosion limits:

Lower: No data availableUpper: No data available

Vapor pressure: N/A

Density at 20 °C (68 °F): 21.45 g/cm

3

(179 lbs/gal)

Relative density

No data available.

Vapor density

N/A

Evaporation rate

N/A

Solubility in Water (H

2

O): No data available

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

Viscosity:	 		1	1 1		
Dynamic: N/A						
Kinematic: N/A	 				 	
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SECTION 10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Possibility of hazardous reactions

No dangerous reactions known

Conditions to avoid

No data available

Incompatible materials:

No data available

Hazardous decomposition products:

Platinum oxide

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.

LD/LC50 values that are relevant for classification:

No data										
Skin irritation or corre										
Generally the produc	ct does no	t irritate	the skin.		'	'	1 1			. :
Eye irritation or corro		1,		;	1,		1	1,	:	;
No irritant effect.										
Sensitization:										
No sensitizing effects Germ cell mutagenic			e ^r	. :		.**		2		
No effects known.		1			1	: ' '	:	1	: "	:
Carcinogenicity:No c										
EPA, IARC,			1						*	
NTP, OSHA or ACG	IH.									,
The Registry of Toxic	c Effects o	of Chemi	cal Subs	tances	(RTECS	S) contaiı	ns tumo	origenic a	and/or	
carcinogenic and/or	neoplastic	data foi	this sub	stance) <u>.</u>					
Reproductive toxicity	/:	1,	1		i,	, , ,	;	i,	:"	
No effects known.			1			1			٠	• :
Specific target organ	system to	oxicity - ı	epeated	expos	ure:	,				
No effects known.										
Specific target organ	system to	oxicity -	single ex	poșure	: :,	: ' '	1	1,	: "	;
No effects known.										
Aspiration hazard:						1				
No effects known.										. :
Subacute to chronic	toxicity:									
The Registry of Toxic	c Effects o	of Chemi	cal Subs	tances	(RTECS	S) contai	ns mult	iple dose	toxicity	:
data for this substan	ce.				1 1				4	
Additional toxicologic				,	,		,	,		
To the best of our kn	owledge 1	the acute	and chr	onic to	xicity of	this subs	tance i	s not full	y known.	. :

SECTION 12. ECOLOGICAL INFORMATION

Toxicity .										
Aquatic toxicity:										
No data available	, ,	. '			. '					. :
Persistence and dec				:	1,	:**	:	1,		:
Bioaccumulative pot	tential ;					1			4	
No data available Mobility in soil		e e		.:	e.	, e	. :	<i></i>	, e	
No data available		;	: ' '	;			;	;		:
Additional ecologica				,	,		,	,		,
Do not allow materia	al to be rel	eased to	the env	ironme	nt withou	ut official	permits	S. '	1	
Do not allow undilute	ed product	t or large	quantiti	es to re	each gro	undwater	, water	courses	, or sewa	age
systems.										
Avoid transfer into the	ne environ	ment.	: ' '			100	;	:		:
Results of PBT and	vPvB asse	essment								
PBT:			٠			1			1	
N/A										. :
vPvB:										
N/A : : : : : : : : : : : : : : : : : : :		1,	: ' '	:	1,	111	1	1,		:
Other adverse effec	ts ,									
No data available	,	,		,	,		,	,		,
		, '								
SECTION 13	DISP	OSAL	CON	ופוח	FRΔT	IONS.				

Waste treatment methods

Recommendation

Consult official regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

UN-Number DOT, ADN, IMDG, IATA N/A UN proper shipping name DOT, ADN, IMDG, IATA N/A Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class N/A Packing group DOT, IMDG, IATA N/A Environmental hazards: N/A Special precautions for user N/A

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

N/A

Transport/Additional information: DOT

Marine Pollutant (DOT): No

SECTION 15. REGULATORY INFORMATION

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

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