

SAFETY DATA SHEET

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Date Revised: 28/12/2022

SECTION 1. IDENTIFICATION

Product Name: Platinum(II) Chloride

CAS #: 10025-65-7

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 in accordance with 29 CFR 1910 (OSHA HCS)

GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

Hazards not otherwise classified

No data available

GHS label elements

GHS label elements, including precautionary statements

Hazard pictograms

GHS05 GHS08

Signal word

DangerHazard statements

H314 Causes severe skin burns and eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P284 In case of inadequate ventilation wear respiratory protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

WHMIS classification

D2A - Very toxic material causing other toxic effects

E - Corrosive material

Classification system

HMIS ratings (scale 0-4)

(Hazardous Materials Identification System).

HEALTH

FIRE

REACTIVITY

3

1,	.:			, 1						.:		: .
Health	(acute ef	fects) =	= 3									
Flamn	nability = ()	1.			1.			1,			1.
	cal Hazard											
Other	hazards		, ;		; ' '				, '			
Result	ts of PBT	and vP	vB¦ass	essment			.:					: '
PBT:		'	1,			1,			1,			1,
N/A												
vPvB:			.:		: ' '	, ;			.:			.:
N/A												
								111				
SEC	TION	3. C	OMP	OSITI	ON/II	NFOI	RMA1	TION (II NC	NGRE	DIEN	TS
		_	_					_			_	_

Substances

CAS No. / Substance Name:

10025-65-7 Platinum(II) chloride

Identification number(s):

EC number:

233-034-1

SECTION 4. FIRST AID MEASURES

Description of first aid measures

General information

Immediately remove any clothing soiled by the product.

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.

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 Causes severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No data available **SECTION 5. FIREFIGHTING MEASURES** Extinguishing media Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Hydrogen chloride (HCI) Metal oxide fume Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

Seek immediate medical advice.

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 material to be released to the environment without official permits.

Methods and materials for containment and cleanup:

Use neutralizing agent.

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

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.

Ensure good ventilation at the workplace.

Prevent formation of dust.

Information about protection against explosions and fires:

The product is not flammable

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:

Store away from strong bases.

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:

10025-65-7 Platinum(II) chloride (100.0%)

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

3

as Pt

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

3

as Pt

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

3

as Pt

EL (Canada) Long-term value: 0.002 mg/m

3

as Pt; S

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.

Avoid contact with the eyes and skin.

Maintain an ergonomically appropriate working environment.

Breathing equipment:

Use suitable respirator when high concentrations are present.

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.

Penetration time of glove material (in minutes)

No data available

Eye protection:

Tightly sealed goggles

Full face protection

Body protection:

Protective work clothing

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Form: Crystalline or powder

Color: Green-brown

Odor: No data available

Odor threshold: No data available.

pH: N/A

Melting point/Melting range: 581 °C (1078 °F) (dec)

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): 5.87 g/cm

3

(48.985 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:

Dynamic: N/A

Kinematic: N/A

SECTION 10. STABILITY AND REACTIVITY

ReactivityNo 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

Reacts with strong oxidizing agents

Conditions to avoid

No data available

Incompatible materials:

Bases

Oxidizing agents

Hazardous decomposition products:

Hydrogen chloride (HCI)

Metal oxide fume

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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

LD/LC50 values that are relevant for classification:

Oral LD50 3423 mg/kg (rat)				, ;			,;	
Skin irritation or corrosion:								
Causes severe skin burns.			1,		. '	1,		.''
Eye irritation or corrosion:								
Causes serious eye damage.			. :		: ' '	.:		:
Sensitization:	.;							
May cause allergy or asthma s					inḥaled	l. ,		
May cause an allergic skin read		, '			. '			
Germ cell mutagenicity:		: ' '	;		: • •	;		:
The Registry of Toxic Effects o								
substance.	.1			.;			,:	
Carcinogenicity:								
No classification data on carcin								
NTP, OSHA or ACGIH.		111			: ' '			
Reproductive toxicity:	,i			.:			.:	
Specific target organ system to	xicity - rep	eated e	xposur	e:		:.		
No effects known.								
Specific target organ system to	xicity - sin	gle exp	osure:		: ' '			: ' '
No effects known.	;			:			;	
Aspiration hazard:								
No effects known.			1,		. ' '	1,		
Subacute to chronic toxicity:								
No effects known.			.:		: ' '	.:		: '
Additional toxicological informa	ition:			.:			,;	
To the best of our knowledge th	ne acute a	nd chro	nic toxi	city of this	substa	ince is	not fully ki	nown.
		,			*			

SECTION 12. ECOLOGICAL INFORMATION

4,											
No data available			.1			.:		:	.:		
Other adverse eff	ects	.:		: ' '			: ' '	.:		: ' '	.:
N/A											
vPvB:	. '	:,			1,		. '	1,			:,
PBT: N/A											
Results of PBT ar	nd vPvE	3 asse	ssment	; * *			: ' '	,;			,;
Avoid transfer into				.'	''		, '	'.		.'	,
systems.											
Do not allow mate Do not allow undil									courses or	sewar	ie.
Additional ecologi											.:
No data available											
Mobility in soil		:,		. '	1,			:,			:,
No data available						, 1			,1		
No data available ; Bioaccumulative p	ootentia	al i		:"	.:			.:		: ' '	.;
Persistence and c	degrada	ability		. '	1,		. '	1.			1,
No data available											
Aquatic toxicity:						:			:		

Waste treatment methods

Recommendation

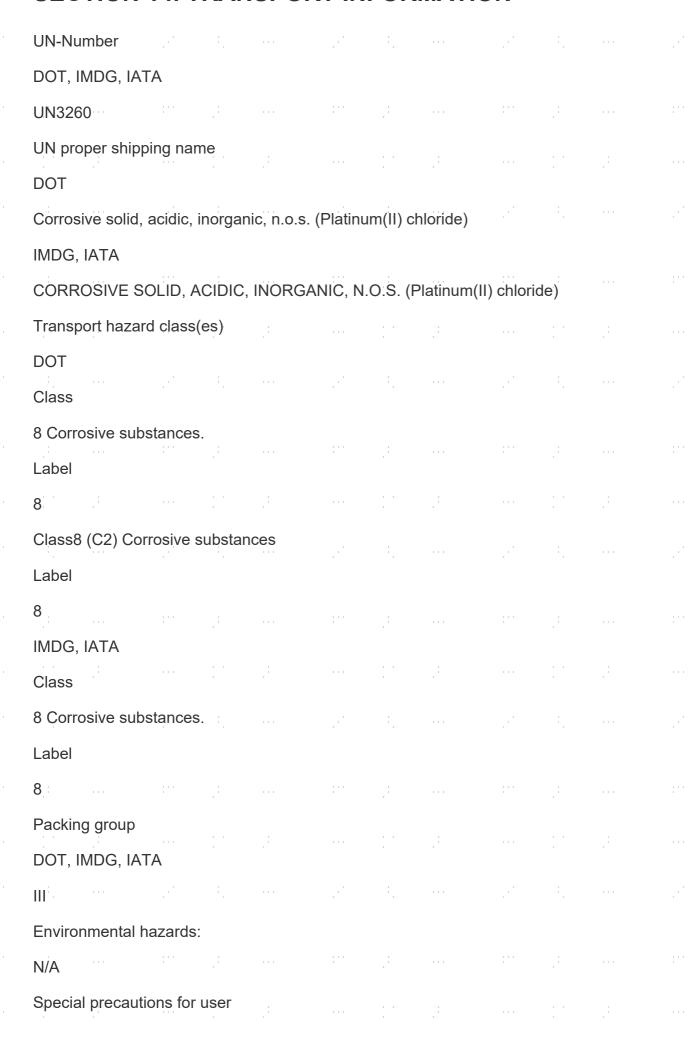
Consult official regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION



Warning: Corrosive substances

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

N/A

Transport/Additional information:

DOT

Marine Pollutant (DOT):

No

UN "Model Regulation":

UN3260, Corrosive solid, acidic, inorganic, n.o.s. (Platinum(II) chloride), 8, III

SECTION 15. REGULATORY INFORMATION

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

GHS GHS label elements, including precautionary statements

Hazard pictograms

GHS05

GHS08

Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

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H317 May cause an allergic skin reaction.

Precautionary statements

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/

national/international regulations.

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.

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 properties of the product.