## Safety Data Sheet



Revision date 07/05/20
1 Identification
Product identifier Product name: <b>Platinum(II) chloride</b>
Stock number: 11044
CAS Number: 11044 10025-65-7
EC number: 233-034-1
Relevant identified uses of the substance or mixture and uses advised against.
Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet
Manufacturer/Supplier: Alfa Aesar
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street
Ward Hill, MA 01835-8099 Tel: 800-343-0660
Fax: 800-322-4757 Email: tech@alfa.com
www.alfa.com Information Department: Health, Safety and Environmental Department
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
2 Hazard(s) 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 information known.
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
GHS05 GHS08
Signal word Danger
Hazard 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. <b>Precautionary statements</b>
P260 Do not breathe dust/tume/gas/mist/vapours/spray.
P284 In case of inadequate ventilation wear respiratory protection
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Remove/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.
P301+P330+P3311F SWALLOWED. INSE MOUN. DO NOT INDUCE VOMIUND.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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       Image: Provide and Provided An
Other hazards Results of PBT and vPvB assessment
PBT: Not applicable.

## Product name: Platinum(II) chloride

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	(Contd. of page 1)
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 10025-65-7 Platinum(II) chloride Identification number(s): EC number: 233-034-1	
<ul> <li>4 First-aid measures         Description of first aid measures             General information Immediately remove any clothing soiled by the product.             After inhalation             Supply fresh air. If required, provide artificial respiration. Keep patient warm.             Seek immediate medical advice.             After skin contact             Immediately wash with water and soap and rinse thoroughly.             Seek immediate medical advice.             After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.             After swallowing Seek medical treatment.             Information for doctor             More timportant symptoms and effects, both acute and delayed             Causes severe skin burns.             Causes serious eye damage.             May cause an allergic skin reaction.          May cause an allergic skin reaction.</li></ul>	
5 Fire-fighting 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) Platinum oxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
<ul> <li>6 Accidental release measures</li> <li>Personal precautions, protective equipment and emergency procedures</li> <li>Wear protective equipment. Keep unprotected persons away.</li> <li>Ensure adequate ventilation</li> <li>Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.</li> <li>Methods and material for containment and cleaning up:</li> <li>Use neutralizing agent.</li> <li>Dispose of contaminated material as waste according to section 13.</li> <li>Ensure adequate ventilation.</li> <li>Prevention of secondary hazards: No special measures required.</li> <li>Reference to other sections</li> <li>See Section 7 for information on safe handling</li> <li>See Section 13 for disposal information.</li> </ul>	
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 Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from storing bases. Store away from storing bases. Store away from storing bases. Store away from storage conditions: Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.	
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/m³ as Pt         REL (USA)       Long-term value: 0.002 mg/m³ as Pt         TLV (USA)       Long-term value: 0.002 mg/m³ as Pt         EL (Canada)       Long-term value: 0.002 mg/m³ as Pt;	(Contd. on page 3)
	USA USA

Product name: Platinum(II) chloride				
Additional information: No data		(Contd. of page 2)		
Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied 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. Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (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 Check protective gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes) 480 Glove thickness 0.11 mm Eye protection: Tightly sealed goggles Full face protection: Body protection: Protection of Body protection: Protection of suitable glowes work clothing.				
9 Physical and chemical properties				
Information on basic physical and che General Information	emical properties			
Appearance: Form:	Crystalline or powder			
Odor: Odor threshold:	Nót determined Not determined.			
pH-value:	Not applicable.			
Flammability (solid, gaseous)	581 °C (1078 °F) (dec) Not determined Not determined Not determined Not determined Not determined Not determined Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower: Upper: Vapor pressure:	Not determined Not determined Not applicable. 5.87 g/cm³ (48.985 lbs/gal) Not determined. Not applicable. Not determined Not determined. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.			
10 Stability and reactivity				
Reactivity No information known. 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 further relevant information available. Incompatible materials: Bases Oxidizing agents Hazardous decomposition products: Hydrogen chloride (HCI) Platinum oxide				
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 this substance.         LD/LC50 values that are relevant for classification:				
Oral LD50 3423 mg/kg (rat) Skin irritation or corrosion: Causes se				
Eye irritation or corrosion: Causes sen Sensitization: May cause allergy or asthma symptoms of May cause an allergic skin reaction. Germ cell mutagenicity: The Registry of Carcinogenicity: No classification data of Reproductive toxicity: No effects knowi	rious eye damage. or breathing difficulties if inhaled. of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n.			
Specific target organ system toxicity -	• repeated exposure: No effects known.	(Contd. on page 4)		

## Product name: Platinum(II) chloride

Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.			
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.			
13 Disposal considerations			
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.			
14 Transport information			
UN-Number DOT, IMDG, IATA	UN3260		
UN proper shipping name DOT IMDG, IATA	Corrosive solid, acidic, inorganic, n.o.s. (Platinum(II) chloride) CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Platinum(II) chloride)		
Transport hazard class(es) DOT			
Class	8 Corrosive substances.		
Label Class Label IMDG, IATA	δ 8 (C2) Corrosive substances 8		
Class Label	8 Corrosive substances. 8		
Packing group DOT, IMDG, IATA	III		
Environmental hazards:	Not applicable.		
Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	Warning: Corrosive substances		
Transport in back according to Annex it of MARY OLTS/TO and the IBC Cod			
DOT	No		
Marine Pollutant (DOT): UN "Model Regulation":	No UN3260, Corrosive solid, acidic, inorganic, n.o.s. (Platinum(II) chloride), 8, III		
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms			
GHS05 GHS08			
Signal word Danger         Hazard 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/vapours/spray.         P284       In case of inadequate ventilation wear respiratory protection.         P261       Avoid breathing dust/fume/gas/mist/vapours/spray.			
P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Remove/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. USA			

## Product name: Platinum(ii) chloride (Contd. of page 4) P301+P330+P331 IF SWALLOWED: inse mouth. De NOT induce vomiting. P301+P330+P331 IF SWALLOWED: inse mouth. De NOT induce vomiting. P301+P330 IF SWALLOWED: inse mouth. De NOT induce vomiting. P301+P330 IF SWALLOWED: inse mouth. De NOT induce vomiting. P301+P330 IF SWALLOWED: inse mouth. De NOT induce vomiting. P301 IF SWALLOWED: inse mouth. De NOT induce vomiting. P301 IF SWALLOWED: inse mouth. De NOT induce vomiting. P301 IF SWALLOWED: Inse mouth. De NOT induce vomiting. P301 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations All components of this product are listed on the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance is not listed. Prop 65 - Developmental toxicity. If substance is not listed. Prop 65 - Developmental toxicity. If substance is not listed. Prop 65 - Developmental toxicity. If and Substance is not listed. If prop 65 - Developmental toxicity. If and Substance is not listed. With Concern (SVH) of according to the FEACH 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 listed. Actimated alfey assessment: A Chemical Safety Assessment has not been carried out. 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 leve seess ment. A Chemical Safety Assessment has not been carried out. 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 substance is not listed. The conditions of restrictions according to Article 67 and Annex X