

# MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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## SECTION 1 Product Identification

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**CHEMICAL NAME:** Platinum (II) hexafluoroacetylacetonate  
**CAS #:** 65353-51-7  
**FORMULA:** Pt(CF<sub>3</sub>COCHCOCF<sub>3</sub>)<sub>2</sub>  
**SYNONYM:** Bis(1, 1, 1, 5, 5, 5-hexafluoro-2, 4-pentanedionato)platinum (II)

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## SECTION 2 Composition and Information on Ingredients

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INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	65353-51-7	100	2.5mg/m <sup>3</sup> (as F)	2.5mg/m <sup>3</sup> (as F)

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## SECTION 3 Hazards Identification

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**EMERGENCY OVERVIEW:** Irritating to skin, eyes and respiratory tract. Exposure to platinum compounds has been shown to cause wheezing, coughing, and running of the nose. Inhalation or ingestion may cause fluoride poisoning.

**PRIMARY ROUTES OF EXPOSURE:** Ingestion, inhalation, skin, inhalation of dust.

**EYE CONTACT:** Causes slight to mild irritation of the eyes.

**SKIN CONTACT:** Causes slight to mild irritation of the skin.

**INHALATION:** Inhalation of the dust causes irritation of the nose, mucous membranes and respiratory tract, wheezing, coughing, shortness of breath.

**INGESTION:** Ingestion may lead to fluoride poisoning, dizziness, abdominal cramps, and vomiting.

**CHRONIC HEALTH EFFECTS:** Product contains fluorine which under certain conditions of use, decomposition, or metabolism, may generate fluoride ion, causing, nausea, vomiting, labored breathing, hypocalcaemia, deterioration of bone and tooth structure, kidney and liver damage.

**ACUTE HEALTH EFFECTS:** Irritating to skin, eyes, mucous membranes, and respiratory tract.

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## SECTION 4 First Aid Measures

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**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if

conscious). Induce vomiting only if directed by medical personnel.

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## **SECTION 5                      Firefighting Measures**

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**FLASH POINT:** not applicable

**AUTO IGNITION TEMPERATURE:** none

**EXPLOSION LIMITS:** none

**EXTINGUISHING MEDIUM:** carbon dioxide, foam, or dry powder

**SPECIAL FIREFIGHTING PROCEDURES:** If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** If involved in a fire this material may emit toxic fumes.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** No unusual fire or explosion hazards.

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## **SECTION 6                      Accidental Release Measures**

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**SPILL AND LEAK PROCEDURES:** Small spills can be mixed with vermiculite, sodium carbonate or other suitable non combustible adsorbent and swept up.

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## **SECTION 7                      Handling and Storage**

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**HANDLING AND STORAGE:** Store material in a tightly sealed container .

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## **SECTION 8                      Exposure Controls and Personal Protection**

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**EYE PROTECTION:** Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

**SKIN PROTECTION:** Chemical-resistant.

**VENTILATION:** If possible, handle the material in an efficient fume hood.

**RESPIRATOR:** If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

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## **SECTION 9                      Physical and Chemical Properties**

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**COLOR AND FORM:** orange xtl.

**MOLECULAR WEIGHT:** 609.22

**BOILING POINT:** subl. 65°/0.1 mm

**VAPOR PRESSURE:** no data

**SPECIFIC GRAVITY:** no data

**SOLUBILITY IN WATER:** insoluble

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## **SECTION 10                    Stability and Reactivity**

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**STABILITY:** air and moisture stable

**HAZARDOUS POLYMERIZATION:** no hazardous polymerization

**CONDITIONS TO AVOID:** none

**INCOMPATIBILITY:** oxidizing agents, halogens, and active metals

**DECOMPOSITION PRODUCTS:** carbon monoxide, carbon dioxide, carbonyl fluoride, hydrogen fluoride, organic fumes, and platinum salts.

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## **SECTION 11 Toxicological Information**

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**RTECS DATA:** No information available in the RTECS files.

**MUTAGENIC EFFECTS:** no data

**TETRATOGENIC EFFECTS:** no data

**CARCINOGENIC EFFECTS:** no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

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## **SECTION 12 Ecological Information**

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**ECOLOGICAL INFORMATION:** No information available

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## **SECTION 13 Disposal Considerations**

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**DISPOSAL:** Dispose of in according to local state and federal regulations.

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## **SECTION 14 Transportation Information**

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Non-hazardous

Non-hazardous

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## **SECTION 15 Regulatory Information**

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**TSCA:** Not listed in the TSCA inventory

**SARA (TITLE 313):** Not regulated by Title 713

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## **SECTION 16 Other Information**

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