

Safety Data Sheet

Section 1 - Chemical Identification

Product Name: Platinum(Pt)N catalyst
Catalog Numbers: CI-1290
SDS number : 34
Intended use: Laboratory use

Company Crossings, Inc.
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Section 2 - Hazards Identification

Classification: Skin corrosion/irritation Category 2
Sensitization, skin Category 1
Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Label:



Signal Word: **Warning**

Hazard Statement: Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation.

Precautionary

statement: Avoid breathing dust/fumes/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves. Observe good industrial hygiene practices.

If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with federal/state/local regulations.

Other Hazards: None

Section 3 - Composition, Information on Ingredients

Chemical Name	Common Name	CAS#	%/W
Aluminum oxide		1344-28-1	99.5
Platinum		7440-06-4	0.5

Section 4 - First Aid Measures

Call a doctor if you feel unwell.

EYES: Flush eyes with plenty of water. **If eye irritation persists:** Seek medical aid.

SKIN: Wash skin with plenty of water. Seek medical aid if irritation develops or persists.

INGESTION: Wash out mouth. Do not induce vomiting unless suggested by a doctor. Seek medical aid.

INHALATION: Remove to fresh air immediately. Seek medical aid.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media: Special powder for metal fires. Do not use water

Unsuitable Extinguishing Media: Water

Fire Hazards Arising from Chemical: Aluminum oxides and Platinum oxides can be released during a fire.

Specific Methods: Firefighters use fully protective impervious suit and self-contained respirator.

Section 6 - Accidental Release Measures

Personal Precautions: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Recovery method: Avoid dust creation. Pickup mechanically. Dispose of material in according to local, state and federal regulations.

Section 7: Handling and Storage

Handling: Keep container closed when not in use- store in a clean dry and well ventilated environment. Wash hands after handling.

Storage: Keep container closed when not in use- store in a clean dry and well ventilated area.

See section 10 for conditions to avoid during storage.

Section 8 - Exposure Controls, Personal Protection

CAS#	Chemical Name	Form	OSHA PEL(mg/m3)	ACGIH TLV(mg/m3)	NIOSH TWA(mg/m3)
Mix	Platinum /alumina oxide	Respirable Fraction	5	-	-
		Total Dust	15		-

Controls: Use adequate ventilation to keep airborne concentrations below the permissible exposure limits.

Eye and Face Protection: Wear appropriate protective eyeglasses or chemical safety goggles.

Skin: Wear appropriate quality gloves.

Clothing: Wear protective clothing. Do not remove dust from clothing by blowing or shaking.

Respirators: Use an approved respirator.

General Hygiene: Wash hands after handling and before handling any food or drink.

SECTION 9 - Physical and Chemical Properties

Physical state: Solid pellet

Appearance: Gray

Odor: None

PH: Not available.

Vapor pressure: N/A

Vapor density: N/A

Evaporation rate: N/A.

Viscosity: not available.

Melting point: 2045°C (3713°F)

Freezing point: N/A

Decomposition temperature: N/A.

Solubility in water: Insoluble

Section 10 - Stability and Reactivity

Stability: Stable under normal temperature and pressure conditions.

Conditions to avoid: Strong acids and bases.

Hazardous Decomposition: Aluminum oxide, Platinum oxide

Incompatible materials: Acids, Bases, Halogens, Halocarbons, Flammable substances.

Section 11 - Toxicological Information

Toxicological effects

Acute toxicity: No data available.

Skin corrosion/irritation: Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation: Dust will cause irritation.

Respiratory sensitization: No data available.

Skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity OSHA Specifically Regulated

Substances (29 CFR 1910.1001-1050) Not listed.

Reproductive toxicity: No data available.

Specific target organ toxicity - single exposure: No data available.

Specific target organ toxicity - repeated exposure: No data available.

Aspiration hazard: Not available.

Chronic effects: Prolonged inhalation may be harmful.

Section 12 - Ecological Information

Eco-toxicity: No data

Mobility in soil: No data.

Persistence and Degradability: No data

Bio-accumulative Potential: No data.

Section 13 - Disposal Considerations

Dispose of according to applicable federal, state and local regulation.

Section 14 - Transport Information

DOT - Not regulated as dangerous goods.

IATA - Not regulated as dangerous goods.

IMDG - Not regulated as dangerous goods.

Section 15 - Regulatory Information

US Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA 313 Title III Section 302: Not regulated.

SARA 313 Title III Section 304: Not regulated

SARA 313 Title III Section 304: Not regulated

SARA 313 Title III Section 313: (TRI reporting)

<u>Chemical Name</u>	<u>CAS#</u>	<u>%/W</u>
Aluminum oxide	1344-28-1	99.5

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories: Aluminum oxide (CAS No. 1344-28-1)

TSCA 12(b), Export Notification: Not listed.

Canadian WHMIS: Information is not provided for this material.

State Regulations: California Proposition 65: This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Section 16 – OTHER INFORMATION

HMIS[®] (scale 0-4): Health: 1 Flammability: 0 Physical Hazard: 1

NFPA ratings: Health: 0 Flammability: 0 Instability: 0

The information provided in the SDS is believed to be correct to the best of our knowledge and is attended only as guidance for the safe use, storage and disposal of the product. Crossings Inc, cannot assure the accuracy of the information provided and shall not be responsible or liable for any damage or losses resulting from use.

Date: November 10, 2015