

SAFETY DATA SHEET

Creation Date 24-Nov-2010

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

Product Name

Platinum(IV) oxide

Cat No. :

Synonyms

CAS No

AC195320000; AC195320010; AC195320050; AC195322500

1314-15-4 Adams` catalyst

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids

Category 1

Label Elements

Signal Word Danger

Hazard Statements

May cause fire or explosion; strong oxidizer



Precautionary Statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep/Store away from clothing/ other combustible materials

Take any precaution to avoid mixing with combustibles

Wear protective gloves/protective clothing/eye protection/face protection

Wear fire/flame resistant/retardant clothing

Skin

IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes **Fire**

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion In case of fire: Use CO2, dry chemical, or foam for extinction

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %			
Platinum oxide (PtO2)		1314-15-4	>95			
	4.	First-aid measures				
General Advice If symptoms persist, call a physician.						
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. G medical attention.						
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.					
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.					
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.					
Most important symptoms and effects	andNone reasonably foreseeable.Treat symptomatically					
Notes to Physician						

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available

Flash Point Method -	No information available No information available				
Autoignition Temperature Explosion Limits	Not applicable				
Upper Lower	No data available No data available				
Oxidizing Properties	Oxidizer				

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Oxidizer: Contact with combustible/organic material may cause fire. After use: spent catalysts may become explosive. Keep product and empty container away from heat and sources of ignition. May ignite combustibles (wood paper, oil, clothing, etc.).

Hazardous Combustion Products

No information available.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>	Health 2	Flammability 0	Instability 2	Physical hazards OX				
		6. Accidental releas	e measures					
Personal F	Precautions	Use personal protective equipment formation.	nt as required. Ensure adequa	te ventilation. Avoid dust				
Environme	ental Precautions	Should not be released into the e	nvironment.					
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Sweep up and shovel in suitable containers for disposal.								
		7. Handling and						
Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothin Keep away from clothing and other combustible materials.								
Storage.		Do not store near combustible materials. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Metals. Strong reducing agents. Combustible material.						
8. Exposure controls / personal protection								
Exposure	<u>Guidelines</u>	This product does not contain any limitsestablished by the region sp		upational exposure				
Engineerir	ng Measures	Ensure adequate ventilation, espe and safety showers are close to the		re that eyewash stations				
Personal F	Protective Equipment							
Eye/fa	Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.							

Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties Powder Solid

Brown

No information available Not applicable No information available No data available No data available negligible Not applicable No information available No information available No data available Not applicable 450 °C Not applicable O2 Pt 227.09

10. Stability and reactivity

act with combustible/organic material may cause fire.				
Avoid dust formation. Incompatible products. Excess heat. Combustible material.				
ng agents, Metals, Strong reducing agents, Combustible material				
n available				
Hazardous Polymerization Hazardous polymerization does not occur.				
ormal processing.				
icological information				
r				

Product Information	No acute toxicity information is available for this product
Component Information	
Toxicologically Synergistic	No information available
Products	
Delayed and immediate effects as w	ell as chronic effects from short and long-term exposure

Platinum(IV) oxide		Revision Date 24-Dec-2021							
Irritation		No information available							
Sensitization		No information available							
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.							
Component Platinum oxide (PtO2)	CAS No 1314-15-4	IARC Not listed	NTP Not listed	ACGIH Not listed	OSHA Not listed	Mexico Not listed			
Mutagenic Effects		Not listed Not listed Not listed Not listed Not listed							
Reproductive Effects		No information available.							
Developmental Effects		No information available.							
Teratogenicity		No information available.							
	STOT - single exposure None known STOT - repeated exposure None known								
Aspiration hazard		No information ava	ailable						
Symptoms / effects,bo delayed	th acute and	No information ava	ailable						
Endocrine Disruptor Inf	formation	No information available							
Other Adverse Effects The toxicological properties have not been fully investigated.									
		12. Ecological information							
Ecotoxicity .									
Persistence and Degradability Insoluble in water									
Bioaccumulation/ Accu	mulation	No information ava	ailable.						
Mobility		Is not likely mobile	in the environmer	nt due its low water	solubility.				
		13. Dispo	sal conside	erations					
Waste Disposal Method	ls	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.							
		14. Transport information							
DOT UN-No Proper Shipping Na Technical Name Hazard Class Packing Group <u>TDG</u> UN-No Proper Shipping Na Hazard Class Packing Group		UN1479 Oxidizing solid, n.o.s. Platinum oxide (PtO2) 5.1 I UN1479 Oxidizing solid, n.o.s. 5.1							
IATA UN-No Proper Shipping Na Hazard Class	me	UN1479 Oxidizing solid, n.o.s. 5.1							

Packing Group IMDG/IMO	I
UN-No	UN1479
Proper Shipping Name	Oxidizing solid, n.o.s.
Hazard Class	5.1
Packing Group	l
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Platinum oxide (PtO2)	1314-15-4	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Platinum oxide (PtO2)	1314-15-4	Х	-	215-223-0	Х	Х	Х	Х	Х	KE-28820

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
California Proposition 65 U.S. State Right-to-Know Regulations	This product does not contain any Proposition 65 chemicals. Not applicable
U.S. State Right-to-Know	

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Platinum oxide (PtO2)	1314-15-4	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Platinum oxide (PtO2)	1314-15-4	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	24-Nov-2010 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS