

SAFETY DATA SHEET

Creation Date 06-Oct-2014

Revision Date 19-Jan-2018

Revision Number 4

1. Identification

AC197550000; AC197550010; AC197550050

Product Name

Hydrogen hexachloroiridate(IV) hexahydrate, approx. 40% Iridium

Cat No. :

CAS-No Synonyms 16941-92-7 Chloroiridic acid

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific 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)

Corrosive to metals	
Acute oral toxicity	
Skin Corrosion/irritation	
Serious Eye Damage/Eye Irritation	
Specific target organ toxicity (single exp	osure)
Target Organs - Respiratory system.	,

Category 1 Category 4 Category 1 C Category 1 Category 3

Label Elements

Signal Word Danger

Hazard Statements

May be corrosive to metals Harmful if swallowed Causes severe skin burns and eye damage May cause respiratory irritation

Hydrogen hexachloroiridate(IV) hexahydrate, approx. 40% Iridium



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

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

Use only outdoors or in a well-ventilated area

Keep only in original container

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Eyes

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

Rinse mouth

Do NOT induce vomiting

Spills

Absorb spillage to prevent material damage

Storage

Store locked up

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

Store in corrosive resistant polypropylene container with a resistant inliner

Store in a dry place

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

General Advice

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Iridate(2-), hexachloro-, dihydrogen, (OC-6-11)-	16941-92-7	>95

4. First-aid measures
Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye ContactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.Immediate medical attention is required. Keep eye wide open while rinsing.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.

Inhalation	Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Ingestion	Immediate medical attention is required. Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically
	5. Fire-fighting measures
Suitable Extinguishing Media	CO ₂ , dry chemical, dry sand, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available

Flash Point	No information available
Method -	No information available

Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes.

Hazardous Combustion Products

Hydrogen chloride gas

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. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Health 3	Flammability 0	Instability 0	Physical hazards N/A
	6. Accidental re	elease measures	
Personal Precautions	Use personal protective e skin, eyes and clothing.	quipment. Evacuate personnel t	o safe areas. Avoid contact with
Environmental Precautions		to the environment. Do not allow	v material to contaminate ground
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust Up formation.			
7. Handling and storage			

	7. Handling and storage
Handling	Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest.
Storage	Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
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	Long sleeved clothing.
Respiratory Protection	A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical State	Solid
Appearance	Black
Odor	Acrid
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	H2 Cl6 Ir . 6 H2 O
Molecular Weight	515.02

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Exposure to moist air or water.	
Incompatible Materials Strong oxidizing agents		
Hazardous Decomposition Products Hydrogen chloride gas		

Hazardous Polymerization		Hazardous polymerization does not occur.						
Hazardous Reactions		None under normal processing.						
		11. Toxico	ological info	ormation				
Acute Toxicity								
Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as w		No information available well as chronic effects from short and long-term exposure_						
Irritation		Causes burns by a	all exposure routes					
Sensitization		No information ava	ailable					
Carcinogenicity		Limited evidence of a carcinogenic effect.						
Component Iridate(2-), hexachloro-, dihydrogen, (OC-6-11)-	CAS-No 16941-92-7	IARC Not listed	NTP Not listed	ACGIH Not listed	OSHA Not listed	Mexico Not listed		
Mutagenic Effects		No information available						
Reproductive Effects		No information available.						
Developmental Effects		No information available.						
Teratogenicity		No information available.						
STOT - single exposure STOT - repeated exposure		Respiratory system None known						
Aspiration hazard		No information available						
Symptoms / effects,both acute and delayed		Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation						
Endocrine Disruptor Information		No information available						
Other Adverse Effects		The toxicological properties have not been fully investigated.						
12. Ecological information								
Ecotoxicity Do not empty into dra	ains.							
Persistence and Degradability		Soluble in water Persistence is unlikely based on information available.						
Bioaccumulation/ Accumulation		No information available.						
Mobility		Will likely be mobile in the environment due to its water solubility.						
			sal conside					
Waste Disposal Methods		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	UN3260
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Proper technical name	Iridate(2-), hexachloro-, dihydrogen, (OC-6-11)-
Hazard Class	8
Packing Group	III
<u>TDG</u>	
UN-No	UN3260
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Hazard Class	8
Packing Group	III
IATA	
UN-No	UN3260
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Hazard Class	8
Packing Group	III
IMDG/IMO	
UN-No	UN3260
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Hazard Class	8
Packing Group	
	15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Iridate(2-), hexachloro-,	Х	Х	-	241-012-8	-		-	Х	Х	Х	Х
dihydrogen, (OC-6-11)-											

- Legend:
- X Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
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 Not applicable	Administration
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation	
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

	16. Other information
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	06-Oct-2014
Revision Date	19-Jan-2018
Print Date	19-Jan-2018
Revision Summary	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