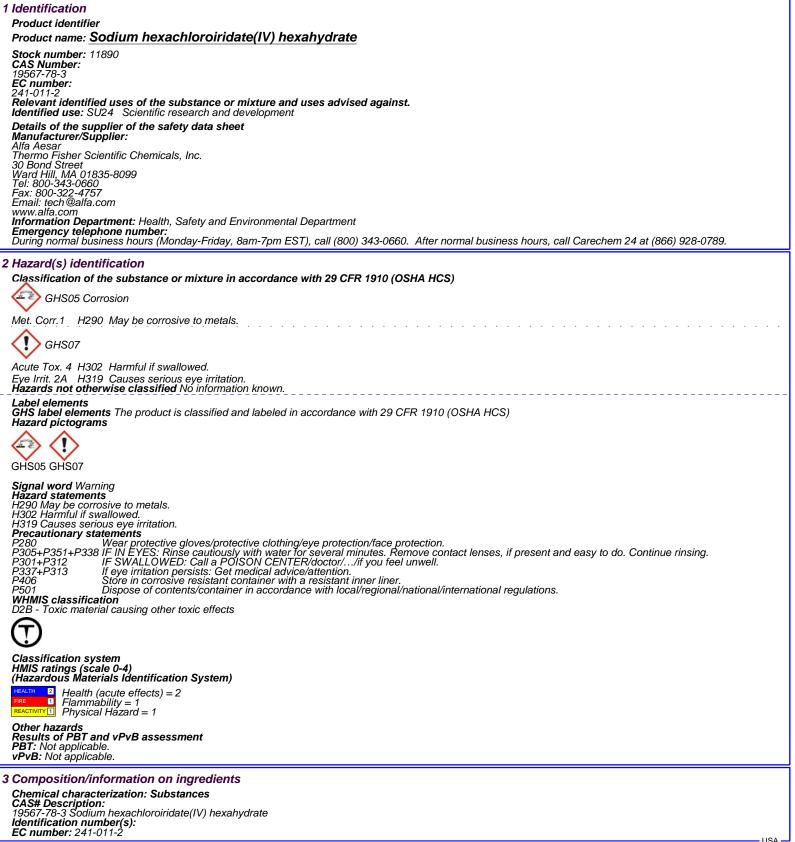


Safety Data Sheet per OSHA HazCom 2012



(Contd. on page 2)

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Product name: Sodium hexachloroiridate(IV) hexahydrate		
	(Contd. of page 1)	
<ul> <li>4 First-aid measures         Description of first aid measures             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             Most important symptoms and effects, both acute and delayed No further relevant information available.             Indication of any immediate medical attention and special treatment needed No further relevant information available.</li></ul>		
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Sodium oxide Hydrogen chloride (HCI) Metal oxide furme Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.		
6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.		
7 Handling and storage         Handling         Precautions for safe handling         Store in cool, dry place in tightly closed containers.         Ensure good ventilation at the workplace.         Information about protection against explosions and fires: No information known.         Conditions for safe storage, including any incompatibilities         Storeage         Requirements to be met by storerooms and receptacles: No special requirements.         Information about storage in one common storage facility:         Do not store together with acids.         Store away from oxidizing agents.         Store away from metals.         Further information about storage conditions:         Keep container tightly sealed.         Store away from metals.         Further information about storage conditions:         Keep container tightly sealed.         Store in cool, dry conditions in well sealed containers.         Store in cool, dry conditions in formation available.		
8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical tume 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment General 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 stin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing.	USA	
	(Contd. on page 3)	

## Product name: Sodium hexachloroiridate(IV) hexahydrate

(Contd. on page 4)

		(Contd. of page 2)
9 Physical and chemical properties		(
Information on basic physical and che General Information Appearance: Form:		
Color: Odor: Odor: threshold:	Not determined	
Odor threshold: pH-value:	Not determined. Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	600 °C (1112 °F) (dec) Not determined Not determined Not determined. Not determined Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water:	Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Soluble	
Partition coefficient (n-octanol/water): Viscosity:		
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.	
Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions Re Conditions to avoid No further relevant Incompatible materials: Acids Oxidizing agents Metal powders Metals Hazardous decomposition products: Sodium oxide Hydrogen chloride (HCI) Metal oxide fume	nended storage conditions. <b>o be avoided:</b> Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents t information available.	
Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	e irritation rious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. rn. - <b>repeated exposure:</b> No effects known. - <b>single exposure:</b> No effects known.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant infor Persistence and degradability No further Bioaccumulative potential No further re- Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to th Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevan	ner relevant information available. elevant information available. mation available. he environment without proper governmental permits. quantities to reach ground water, water course or sewage system. <b>t</b>	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be m	ade according to official regulations.	(Contd. on page 4)

USA

Product name: Sodium hexachloroiridate(IV) hexahydrate (Contd. of page 3) Recommended cleansing agent: Water, if necessary with cleansing agents. 14 Transport information **UN-Number** DOT, ADN, IMDG, IATA Not applicable UN proper shipping name DOT, ADN, IMDG, IATA Not applicable Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class Not applicable Packing group DOT, IMDG, IATA Not applicable Environmental hazards: Not applicable. Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": -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 GHS07 Signal word Warning Hazard statements H290 May be corrosive to metals. H302 Harmful if swallowed. H319 Causes serious eye irritation. 

 H319 Causes serious eye innauon.

 Precautionary statements

 P280
 Wear protective gloves/protective clothing/eye protection/face protection.

 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+P312
 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.

 P337+P313
 If eye irritation persists: Get medical advice/attention.

 P406
 Store in corrosive resistant container with a resistant inner liner.

 P301
 Dispase of contents/container in accordance with local/regional/national/international regulations.

 Altional regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH 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 use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -

 Date of preparation / last revision 11/24/2015 / 

 Abbreviations and acronyms:

 DAR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

 DOT: US Department of Transportation

 EVINCES: European Inventory of Existing Commercial Chemical Substances

 CAS: Chemical Abstracts Service (division of the American Chemical Society)

 HMIS: Hazardous Materials Identification System (USA)

 WHMIS: Workplace Hazardous Materials Information System (Canada)

 L560: Lethal concentration, 50 percent

 L90: Very Persistent and very Bioaccumulative

 ACGIH: American Conference of Governmental Industrial Hygienists (USA)

 OSHA: Occupational Safety and Health Administration (USA)

 NTP: National Toxicology Program (USA)

 IARC: International Agency for Research on Cancer

 EPA: Environmental Protection Agency (USA)