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| Details of the supplier of the safety data sheet Amathematical supplier: The second supplic second supplier: The second supplim | | CAS Number: 12246-51-4 | |
| Manufacture/Suppler: | | | |
| Water JH, JA 1983 2009 Par: B0-327 Sub Init 2: H315 Sub Init 2: H315 Cause skin infation: Export 307 Sub Init 2: H315 Cause skin infation: Export 307 Sub Init 2: H315 Cause skin infation: Export 307 Sub Init 2: H315 Cause skin infation: Export 307 Sub Init 2: H315 Cause skin infation: Export 307 Sub Init 2: H315 Cause skin infation: Export 307 Sub Init 2: H315 Cause skin infation: Export 307 Sub Init 2: H315 Cause skin infation: H315 <th></th> <th>Manufacturer/Supplier: Alfa Aesar</th> <th></th> | | Manufacturer/Supplier: Alfa Aesar | |
| The solution of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) C Hazard's) (defaultification C Hazard | | Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill MA 01835-8099 | |
| www.ala.com thermony.org www.ala.com thermony.org 2 Hazerd(s) identification 2 Hazerd(s) identification 2 Chasilington of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) • Gradie • Gradie • Status • Status • Chasilington | | Tel: 800-343-0660 Fax: 800-32 <u>2</u> -4757 | |
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| P280 Wear protective glows/protective clothing/eye protection/lace protection. P305+P381 FIN EVES: Rims calubusly with water of several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P380 Take off contamined clothing and wash before reuse. P331+P313 Specific reatment (see on this label). P305+P323 Specific reatment (see on this label). P405 Specific reatment (see on this label). P405 Dispose of contenting of wash before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contenting of the content of th | | H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vanours/spray. | |
| P405 Store in a well-ventilated place. Keep container tightly closed. P601 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMS classification Dispose of contents/container in accordance with local/regional/national/international regulations. WHMS classification Dispose of contents/container in accordance with local/regional/national/international regulations. WHMS classification Dispose of contents/container in accordance with local/regional/national/international regulations. WHMS classification System D2B - Toxic material causing other toxic effects Classification system HulkS rating's (scale 0-4) Hazardous Materials Identification System) Heart Heart (acute effects) = 1 Fammability = 1 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. Prescription: 3 Composition/Information on ingredients Chemical characterization: Substances CASE Description: 12246-51-4 Chiorobia(cyclooctene)/iridium(I) dimer 4 First-aid measures Ater inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek Immediate moduleal advice. Atter inhaletion Supply fresh air. If requi | | P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P388 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. | |
| P405 Store in a well-ventilated place. Keep container tightly closed. P601 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMS classification Dispose of contents/container in accordance with local/regional/national/international regulations. WHMS classification Dispose of contents/container in accordance with local/regional/national/international regulations. WHMS classification Dispose of contents/container in accordance with local/regional/national/international regulations. WHMS classification System D2B - Toxic material causing other toxic effects Classification system HulkS rating's (scale 0-4) Hazardous Materials Identification System) Heart Heart (acute effects) = 1 Fammability = 1 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. Prescription: 3 Composition/Information on ingredients Chemical characterization: Substances CASE Description: 12246-51-4 Chiorobia(cyclooctene)/iridium(I) dimer 4 First-aid measures Ater inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek Immediate moduleal advice. Atter inhaletion Supply fresh air. If requi | | P302 Take on contaminated cioning and wash before reuse. P321 Specific treatment (see on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. | |
| WHMIS classification D2B - Toxic material causing other toxic effects Difficult Classification system HMIS science HARS ratings (scale 0-4) (Hazardou's Materials Identification System) Health (acute effects) = 1 Provide the effects) = 1 Provide the effects of the effects of the effect of the ef | | P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep container tightly closed. | |
| HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: I | | WHMIS classification | |
| HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: I | | \bigcirc | |
| Health (acute effects) = 1 Fearmability = 1 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 12246-51-4 Chlorobis(cyclooctene)iridium(1) dimer 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. | | HMIS ratings (scale 0-4) | |
| Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 12246-51-4 Chlorobis(cyclooctene)iridium(l) dimer 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. | | HEALTH I Health (acute effects) = 1 | |
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| CAS# Description: 12246-51-4 Chlorobis(cyclooctene)iridium(I) dimer 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. | 3 | |] |
| 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. | | CAS# Description: | |
| 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. | 4 | | 1 |
| Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. | | After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. | |
| (Contd. on page 2) | | Seek îmmediate medical advice. After skin contact | |
| | | (Contd. on page 2) USA – | 1 |

Safety Data Sheet acc. to OSHA HCS

| Draduct name, Oblanchistania | no)iridium(I) dimor | |
|---|---|------------------------|
| Product name: Chlorobis(cycloocte | ne)maium(i) aimer | |
| After swallowing Seek medical treatmed Information for doctor Most important symptoms and effect Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. | | (Contd. of page 1) |
| 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon Special hazards arising from the sub- If this product is involved in a fire, the for Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Iridium oxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. | n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture Illowing can be released: | |
| 6 Accidental release measures Personal precautions, protective equ Wear protective equipment. Keep unpro Ensure adequate ventilation Environmental precautions: Do not al Methods and material for containmen Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on person See Section 13 for disposal information. | otected persons away. llow product to reach sewage system or any water course. nt and cleaning up: Ensure adequate ventilation. o special measures required. andling nal protection equipment. | |
| Conditions for safe storage, including Storage Requirements to be met by storeroon | e. explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents. nditions: led containers. | |
| 8 Exposure controls/personal proto Additional information about design Properly operating chemical fume hood Control parameters | ection | |
| Dise a respirator with type N95 (USA) or purifying respirators are appropriate. Of Protection of bands: | nanaing cremicals should be followed. and feed. othing immediately. and of work. working environment. spirator when high concentrations are present. term use: r PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to de nly use equipment tested and approved under appropriate government standards. se for their proper condition. y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. | termine if air- |
| 9 Physical and chemical properties | - | |
| Information on basic physical and ch General Information Appearance: _ Form: | solid | |
| Odor: Odor threshold: | Not determined Not determined. | |
| pH-value: | Not applicable. | (Control or reserve O) |
| L | | (Contd. on page 3) |

Product name: Chlorobis(cyclooctene)iridium(I) dimer

| Product name: Chlorobis(cycloocter | ne)iridium(I) dimer | | | |
|---|--|--------------------|--|--|
| | | (Contd. of page 2) | | |
| Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting: | Not determined Not determined Not determined Not determined Not determined Not determined Not determined | | | |
| Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: | Not determined. Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Not determined | | | |
| Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information | Not determined. Not applicable. No further relevant information available. | | | |
| 10 Stability and reactivity 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: Oxidizing ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Iridium oxide | o be avoided: Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents information available. | | | |
| 11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. | | | | |
| | Ith Administration) Substance is not listed. | | | |
| 12 Ecological information Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inform Additional ecological information: General notes: Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevan | er relevant information available. elevant information available. mation available. quantities to reach ground water, water course or sewage system. t | | | |
| 13 Disposal considerations | | | | |
| Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be ma | or national regulations to ensure proper disposal. ade according to official regulations. | | | |
| 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 | | | |
| | | (Contd. on page 4) | | |

Product name: Chlorobis(cyclooctene)iridium(I) dimer (Contd. of page 3) 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 ! GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. 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. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P362 Take off contaminated clothing and wash before reuse. P321 Specific treatment (see on this label). P3405 If skin irritation occurs: Get medical advice/attention. P405 Store locked up P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations. P50 National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or 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. 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. 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 06/30/2016 / - Date of preparation / last revision 06/30/2016'/ Abbreviations and acronyms: DR: 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) HMINS: Hazardous Materials Identification System (USA) WMHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UPUS: USY Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) Skin Intri. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 24: Serious eye damage/eye irritation, Hazard Category 2A Stort SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 USA