

Safety Data Sheet SIP6833.2 Date of issue: 12/30/2014 Version:

Version: 1.0

| Product code : SIP6833.2 Synonyms : LAMOREAUX CATALYST; CHLORO PLAT Chemical family : PLATINUM COMPOUND 1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Chemical intermediate For research and industrial use only 1.3 Details of the supplier of the safety data sheet GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST infd@gelest.com - www.gelest.com 1.4. Emergency telephone number Emergency number : CHEMTREC: 1-800-424-9300 (USA): +1 70 SECTION 2: Hazards Identification 2.1. Classification of the substance or mixture Classification (GHS-US) Film, Liq. 4 H227 Skin Imit. 2 H315 Eye Imit. 2A H315 Hazard pictograms (GHS-US) Film Lay a tatements (GHS-US) Film Lay a tatements (GHS-US) Film A and statements (GHS-US) Film A and statement P337-P333 - IF IN EYES: Rinse cau contact lenses, if present and easy to do. Co P337-P333 - IF eye irritation persists: Get m P337-P333 - IF eye ir | | | |
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| Product form : Mixture Physical state : Liquid Product name : PLATINUM-OCTANAL/OCTANOL COMPLE Product code : SIP6833.2 Synonyms : LAMOREAUX CATALYST; CHLORO PLAT Chemical family : PLATINUM COMPOUND 1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Chemical intermediate For research and industrial use only 1.3 Details of the supplier of the safety data sheet GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST info@gelest.com : www.gelest.com 1.4 Emergency telephone number Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 70 SECTION 2: Hazards identification 2.1 Classification of the substance or mixture Classification (GHS-US) Filam. Liq. 4 H227 Skin Intr. 2 H315 Eye Intr. 2A H319 Aquatic Acute 3 H402 Full text of H-phrases: see section 16 2.2 Label elements GHS-US labeling Hazard pictograms (GHS-US) Flazard statements (GHS-US) Flazard statements (GHS-US) Flazard statements (GHS-US) Flazard statements (GHS-US) Flazard pictograms (GHS-US) Flazard statements (GHS-US) Flazard is tatements (GHS-US) Flazard is the infrition of the substance of P264 - Wash hands thoroughly after handling P273 - Avoid releases to the environment P337-P333 - If we infrition persists: Get m P337-P333 - If we infrition | undertaking | | |
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| P370+P378 - In case of fire: Use water spra extinguish P403+P235 - Keep in a cool place P501 - Dispose of contents/container to lice | ng sparks No smoking i water tiously with water for several minutes. Remove ontinue rinsing edical advice/attention wash before reuse ly or fog, foam, carbon dioxide, dry chemical to | | |
| 2.3. Other hazards | | | |
| No additional information available | | | |

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Unknown acute toxicity (GHS-US) 2.4.

No data available

SECTION 3: Composition/information on ingredients

Substance 3.1.

Not applicable

3.2. **Mixture** Name **Product identifier** % **Classification (GHS-US)** Flam. Liq. 4, H227 Skin Irrit. 2, H315 1-Octanol (CAS No) 111-87-5 > 90 Eye Irrit. 2A, H319 Aquatic Acute 3, H402 Platinum, chloro octanol complexes (CAS No) 68412-56-6 < 10 Skin Irrit. 2, H315 Eye Irrit. 2A, H319

| SECTION 4: First aid measures | |
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| 4.1. Description of first aid measures | |
| First-aid measures general | : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label. |
| First-aid measures after inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice. |
| First-aid measures after skin contact | : Wash with plenty of soap and water. Get medical advice/attention. |
| First-aid measures after eye contact | : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, i present and easy to do. Continue rinsing. Get medical advice/attention. |
| First-aid measures after ingestion | : Never give anything by mouth to an unconscious person. Get medical advice/attention. |
| 4.2. Most important symptoms and effect | cts, both acute and delayed |
| Symptoms/injuries after inhalation | : May cause irritation to the respiratory tract. |
| Symptoms/injuries after skin contact | : Causes skin irritation. May be harmful if absorbed through skin. |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. |
| Symptoms/injuries after ingestion | : May be harmful if swallowed. |
| | |
| | al attention and special treatment needed |
| No additional information available | |
| SECTION 5: Firefighting measures | |
| 5.1. Extinguishing media | |
| Suitable extinguishing media | : Water spray. Water fog. Foam. Carbon dioxide. Dry chemical. |
| 5.2. Special hazards arising from the su | bstance or mixture |
| Fire hazard | : Combustible liquid. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame. |
| 5.3. Advice for firefighters | |
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist. |
| SECTION 6: Accidental release mea | sures |
| 6.1. Personal precautions, protective eq | uipment and emergency procedures |
| General measures | : Remove ignition sources. Use special care to avoid static electric charges. |
| 6.1.1. For non-emergency personnel | |
| Emergency procedures | : Evacuate unnecessary personnel. |
| | |
| 6.1.2. For emergency responders | |
| Protective equipment | : Equip cleanup crew with proper protection. |
| 6.2. Environmental precautions | |
| Prevent entry to sewers and public waters. Notif | y authorities if liquid enters sewers or public waters. Avoid release to the environment. |
| 6.3. Methods and material for containme | ent and cleaning up |
| Methods for cleaning up | : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. Use only non-sparking tools. |
| 6.4. Reference to other sections | |
| See Heading 8. Exposure controls and personal | protection. |
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| SECTION 7: Handling and storage | |
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| 7.1. Precautions for safe handling | |
| Precautions for safe handling | : Avoid all eye and skin contact and do not breathe vapor and mist. Provide good ventilation in process area to prevent accumulation of vapors. Containers and transfer lines require grounding during use. Use only non-sparking tools. |
| Hygiene measures | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. |
| 7.2. Conditions for safe storage, inclu | ding any incompatibilities |
| Technical measures | : Ground/bond container and receiving equipment. |
| Storage conditions | : Keep container tightly closed. |
| Incompatible materials | : Oxidizing agent. |
| Storage area | : Store in a well-ventilated place. Store away from heat. |
| 7.3. Specific end use(s) | |
| No additional information available | |
| SECTION 8: Exposure controls/pe | rsonal protection |
| 8.1. Control parameters | |
| No additional information available | |
| 8.2. Exposure controls | |
| Appropriate engineering controls | : Provide local exhaust or general room ventilation. |
| Personal protective equipment | : Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |
| Hand protection | : Neoprene or nitrile rubber gloves. |
| Eve protection | : Chemical goggles. Contact lenses should not be worn. |
| Skin and body protection | : Wear suitable protective clothing. |
| Respiratory protection | : Where exposure through inhalation may occur from use, respiratory protection equipment is |
| | recommended. NIOSH-certified organic vapor (black cartridge) respirator. |
| SECTION 9: Physical and chemica | I properties |
| 9.1. Information on basic physical and | |
| Physical state | : Liquid |
| Appearance | : Hazy liquid. |
| Color | : Orange. |
| Odor | : Characteristic. Mild. |
| Odor threshold | : No data available |
| Refractive index | : 1.4344 |
| рН | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : <0°C |
| Freezing point | : No data available |
| Boiling point | : > 195 °C (initial) |
| Flash point | : 81 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Combustible liquid |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : 0.845 |
| Solubility | : Slightly. Soluble in water. |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosive limits | : No data available |
| | |

Safety Data Sheet

| 9.2. Other information | |
|---|--|
| No additional information available | |
| SECTION 10: Stability and reactiv | ity |
| 10.1. Reactivity | |
| No additional information available | |
| 10.2. Chemical stability | |
| Stable. | |
| | |
| 10.3. Possibility of hazardous reaction Will generate bydrogen gas in presence of by | ns ydridosilanes and protic materials such as water and alcohol. |
| | |
| 10.4. Conditions to avoid | |
| Heat. Open flame. Sparks. | |
| 10.5. Incompatible materials | |
| Oxidizing agent. | |
| 10.6. Hazardous decomposition produ | |
| Organic acid vapors. Platinum (Pt). Silicon di | ioxide. |
| SECTION 11: Toxicological inform | nation |
| 11.1. Information on toxicological effe | ects |
| Acute toxicity | : Not classified |
| 1-Octanol (111-87-5) | |
| LD50 oral rat | > 3200 mg/kg |
| LD50 oral mouse | 1790 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : Not classified : Not classified |
| Germ cell mutagenicity | Sex Chromosome Loss and Nondisjunction: hamster lung, 800 umol/L |
| Carcinogenicity | : Not classified |
| | : Not classified |
| Reproductive toxicity Specific target organ toxicity (single exposure | |
| | |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |
| Symptoms/injuries after inhalation | : May cause irritation to the respiratory tract. |
| Symptoms/injuries after skin contact | : Causes skin irritation. May be harmful if absorbed through skin. |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. |
| Symptoms/injuries after ingestion | : May be harmful if swallowed. |
| | |
| SECTION 12: Ecological informat | ion |
| 12.1. Toxicity | Llormful to aquetia life |
| Ecology - water | : Harmful to aquatic life. |
| 1-Octanol (111-87-5) | |
| LC50 fish 1 | 11.4 - 12.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC50 fish 2 | 17.68 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
| 12.2. Persistence and degradability | |
| No additional information available | |
| 12.3. Bioaccumulative potential | |
| 1-Octanol (111-87-5) | |
| Log Pow | 3.15 |
| 12.4. Mobility in soil | |
| No additional information available | |
| 12.5. Other adverse effects | |
| Other adverse effects | : This substance may be hazardous to the environment. |
| | |
| 12/30/2014 | EN (English US) SDS ID: SIP6833.2 4/7 |

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| Effect on ozone layer | : No additional information available | | |
|---|--|--|--|
| Effect on the global warming | ct on the global warming : No known ecological damage caused by this product. | | |
| SECTION 13: Disposal consideration | IS | | |
| 13.1. Waste treatment methods | | | |
| Waste disposal recommendations | : Return to manufacturer for pecious metal recovery. | | |
| Ecology - waste materials | : Avoid release to the environment. | | |
| | | | |
| SECTION 14: Transport information | | | |
| 14.1. UN number | NA4000 | | |
| DOT NA no. | NA1993 | | |
| 14.2. UN proper shipping name | | | |
| Proper Shipping Name (DOT) | : Combustible liquid, n.o.s. | | |
| | (PLATINUM-OCTANAL/OCTANOL COMPLEX) | | |
| Department of Transportation (DOT) Hazard Classes | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 | | |
| DOT Symbols | : D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN | | |
| Packing group (DOT) | requiring a technical name | | |
| Packing group (DOT) | : III - Minor Danger | | |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 150 | | |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 203 | | |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 241 | | |
| 14.3. Additional information | | | |
| Other information | : No supplementary information available. | | |
| Transport by sea DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. Air transport DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49) : 220 L | | | |
| SECTION 15: Regulatory information | 1 | | |
| 15.1. US Federal regulations | | | |
| Platinum, chloro octanol complexes (68412- | 56-6) | | |
| Listed on the United States TSCA (Toxic Subst | | | |
| 1-Octanol (111-87-5) | | | |
| Listed on the United States TSCA (Toxic Subst | ances Control Act) inventory | | |
| 15.2. International regulations | | | |
| Platinum, chloro octanol complexes (68412-56-6) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Canadian DSL (Domestic Sustances List) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ENCS (Existing Chemicals List) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemical Substances) 1-Octanol (111-87-5) Listed on the Canadian DSL (Domestic Sustances List) Listed on the Canadian DSL (Domestic Sustances List) Listed on the AICS (Australian Inventory of Chemical Substances) 1-Octanol (111-87-5) Listed on the Canadian DSL (Domestic Sustances List) Listed on the Canadian DSL (Domestic Sustances Produced or Imported in China) Listed on the ECS (Inventory of Existing Chemical Substances) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ENCS (Existing Chemical Subst | | | |
| Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Pollutant Release and Transfer Register Law (PRTR Law) | | | |

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| 15.3. US State regulatio | ns | | | | |
|---|--|---|---|--------------------------------------|--|
| PLATINUM-OCTANAL/C | CTANOL COMPLEX(68412-5 | 6-6) | | | |
| U.S California - Propos | ition 65 - Carcinogens List | No | | | |
| U.S California - Proposition 65 - Developmental Toxicity | | No | | | |
| U.S California - Proposition 65 - Reproductive Toxicity - Female | | No | | | |
| U.S California - Proposition 65 - Reproductive Toxicity - Male | | No | | | |
| Platinum, chloro octanol complexes (68412-56-6) | | | | | |
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) | |
| No | No | No | No | | |
| 1-Octanol (111-87-5) | | | - 1 | | |
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) | |
| No | No | No | No | | |
| 1-Octanol (111-87-5) | | - | | · | |
| U.S Minnesota - Hazar U.S Pennsylvania - RT U.S Texas - Effects Sci | | | | | |

SECTION 16: Other information

Abbreviations and acronyms

: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

Full text of H-phrases::

| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |
|-----------------|--|
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Flam. Liq. 4 | Flammable liquids Category 4 |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| H227 | Combustible liquid |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H402 | Harmful to aquatic life |
| | |

HMIS III Rating

| Health | : | 2 Moderate Hazard - Temporary or minor injury may occur |
|--------------|---|---|
| Flammability | : | 2 Moderate Hazard |
| Physical | : | 0 Minimal Hazard |

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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Safety Data Sheet

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