

GHS Safety Data Sheet

SDS No. : IRR01LAEG

Date Issued: 2004/02/25

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Section 1. Identification of the substance or mixture and of the supplier

1.1 Product Information

Product name: Ir(C₅H₄C₂H₅)(C₈H₁₂) (Ethylcyclopentadienyl)(1,5-cyclooctadiene)Iridium

Product number	Purity	Form
IRR01LB	—	liquid

1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.

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Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Skin corrosion/ irritation: Category 2 Serious eye damage/eye irritation : Category 2 Specific target organ toxicity, single exposure: Category 3	No data available	Substances and mixtures which, in contact with water, emit flammable gases : Not classified

GHS Label : W



Pictograms or symbols

Warning word: WARNING	
Hazard information Causes skin irritation Causes serious eye irritation. May cause respiratory irritation	Description of precaution Wear protective gloves/protective clothing/eye protection /respiratory protection/face protection during handling. Avoid breathing dust/mist/gas/fume/vapours/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. Take off the contaminated clothing and wash before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN; Remove immediately all contaminated clothing and rinse skin with water/shower. Then wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Protect from sunlight. Store in a cool, dry and well ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/ container in accordance with local/national regulations.

Additional hazard information : With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name:	(Ethylcyclopentadienyl)(1,5-cyclooctadiene)Iridium
Chemical formula:	Ir(C ₅ H ₄ C ₂ H ₅)(C ₈ H ₁₂)
Single Substance or Mixture:	Single substance
Composition:	100%
CAS #:	246516-14-3
RTECS#:	not registered
TSCA inventory :	not listed
EINECS:	not listed

Section 4. First aid measures

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

Section 5. Fire fighting measures

Extinguishing agents:	Carbon dioxide, Dry chemical powder, Dry sand. DO NOT use a direct water stream.
Fire fighting:	Combustible material. Burning material releases toxic organic fumes. Remove containers to safe place if possible. Use water spray to Cool down nearby structures and containers. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire. Heating may cause an explosion.

Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.
Environmental hazard precautions:	Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect.
Method for containment and cleaning up:	Remove all sources of ignition. Avoid unnecessary contacts with spills. Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd. Absorb or cover with vermiculite or other suitable absorbent, and dispose of DOT-approved waste containers as much as possible. Carefully wash spill site with plenty of water after material pick up.

Section 7. Handling and storage

Precautions to be taken in handling:

Safe handling: Keep container or bottle tightly closed when not in use.
 Handling worker wears suitable protective clothing.
 Under inevitable exposure cases, handle the material using ventilation.
 Electrically ground all equipment when handling this material and use only non-sparking tools.

Precautions to be taken in storage:

General precautions: Store the material in a sealed container.
 Store in a cool, dry, well ventilated and dark place away from incompatible materials.

Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH(2013)TLV :No data available
 OSHA(2006)PEL :No data available

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, impervious gloves, protective wear, protective boots.

Section 9. Physical and chemical properties

Color and Form: Yellow liquid

Chemical formula: Ir(C₅H₄C₂H₅)(C₈H₁₂)

Formula weight: 393.6

Melting point: 14 °C

Boiling point: 105 °C/13.3 Pa

Density: 1.82 g/cm³

Solubility: Water: Insoluble
 Miscible with: Tetrahydrofuran, toluene, heptane and octane

Flash point: No data available

Oxidation: None

Section10. Stability and reactivity

Stability: • Stable in air under room temperature.

Reactivity

 Incompatibility: • Oxidizing agents

Hazard decomposition products Carbon monoxide, carbon dioxide, metallic oxide of iridium and toxic fumes.

Section11. Toxicological information

Acute toxicity: GHS ; No data available

Skin corrosive / irritation: GHS : Category 2 ; Causes skin irritation

Serious eye damage / irritation:	GHS : Category 2 ; Causes serious eye irritation
Respiratory/ skin sensitization:	GHS ; No data available
Germ cell mutagenicity:	GHS ; No data available
Carcinogenicity:	GHS ; No data available
Reproductive toxicity:	GHS ; No data available
Specific target organ toxicity	
–single exposure:	GHS ; Category 3 ; May cause respiratory irritation
Specific target organ toxicity	
–repeated exposure:	GHS ; No data available

Section 12. Ecological information

Ecotoxicity:

Hazardous to the aquatic environment

 – acute toxicity: GHS ; No data available

 – chronic toxicity: GHS ; No data available

Hazardous to the ozone layer

GHS ; No data available

No Freon or Halon

Fish toxicity:

No data available

Degradability:

No data available

Bioaccumulative potential:

No data available

Mobility in soil:

No data available

Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

Section 14. Transport information

UN classification: Not regulated

UN number: None

HS code: 2841.90

Marine pollution: None

Precautions: Container should be transported in a secure position, in a well-ventilated vehicle.

Section 15. Regulatory information

TSCA inventory : not listed

Please refer to any other local / national measures that may be relevant.

Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.