

EEJA**SAFETY DATA SHEET****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**


Product name : **IRIDEX 300 "B"**
 Product code # : SDSE070040400-a
 Company name : Electroplating Engineers of Japan Ltd.
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2. HAZARDS IDENTIFICATION**GHS classification**

Physical and Chemical hazards			
Explosives	Not applicable	Pyrophoric liquids	Not classified
Combustible/flammable gases	Not applicable	Pyrophoric solids	Not applicable
Chemical unstable gases	Not applicable	Self-heating substances and mixtures	Not applicable
Combustible/flammable aerosols	Not applicable	Substances and mixtures that emit flammable gases in contact with water	Not applicable
Combustion-supporting/oxidizing gases	Not applicable	Oxidizing liquids	Not classified
Gases under pressure	Not applicable	Oxidizing solids	Not applicable
Flammable liquids	Not classified	Organic peroxides	Not applicable
Combustible solids	Not applicable	Metal corrosives	Not classified
Self-reactive substances and mixtures	Not applicable		
Health hazards			
Acute toxicity (oral)	Not classified	Respiratory sensitization	Classification not possible
Acute toxicity (dermal)	Classification not possible	Skin sensitization	Not classified
Acute toxicity (inhalation: gases)	Not applicable	Germ cell mutagenicity	Not classified
Acute toxicity (inhalation: vapors)	Classification not possible	Carcinogenicity	Not classified
Acute toxicity (inhalation: dusts)	Not applicable	Reproductive toxicity	Category 1B
Acute toxicity (oral: mists)	Not classified	Specific target organ toxicity single exposure	Category 1 (nerve system, digestive tract)
Skin corrosion/irritation	Not classified	Specific target organ toxicity repeated exposure	Category 1 (kidney)
Serious eye damage/eye irritation	Not classified	Aspiration hazards	Classification not possible

Environmental Hazards			
Hazardous to the aquatic environment – short-term (acute) hazard	Not classified	Hazardous to the aquatic environment – Long-term (chronic) hazard	Not classified
Hazardous to the ozone layer	Classification not possible		

GHS label elements

Pictogram or symbol	Signal word
	Danger

Hazard information

- May damage fertility or the unborn child.
- Cause damage to organs.
- Cause damage to organs through prolonged or repeated.

Precautionary Statements

<Safety measures>

- Wear protective gloves/clothing/glasses/mask.
- Use local exhaust.
- Do not swallow or breathe mist/vapors.
- Do not get in eyes, on skin, or on clothing.
- Do not eat, drink or smoke when using.
- Wash hands thoroughly after handling.
- Do not handle until all safety precautions have been read and understood.

<First aid measures>

- If inhaled, remove to fresh air and keep at rest and call a doctor if the person feels unwell.
- If swallowed, immediately call a doctor.
- If on skin, wash with soap and plenty of water and remove all contaminated clothing.
- If exposed or concerned, get medical advice/attention.

<Storage>

- Store locked up in a cool/well-ventilated place.

<Disposal>

- Dispose of container and content based on local/regional/international rules.

Note

- Overdosing of boron compound causes shock and may cause effects on nerve center.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical substance: Single compound/ Mixture

Chemical name	%	Formula	CAS #
Iridium compound	5~7% (1.5% as Ir)	—	—
Boron compound	1.7~2.2% (0.2~0.4% as B)	—	—
Organic acid salt	0.2~0.3%	—	—
Water	90~95%	H ₂ O	7732-18-5

4. FIRST AID MEASURES

- Inhalation : Immediately cover the victim with blanket etc. and remove to fresh air to rest. Help the victim to blow his/her nose and gargle. Get medical attention at once.
- Skin contact : Immediately remove contaminated clothing and shoes. Wash exposed or contacted parts with large amounts of water.
- Eye contact : Wash with large amounts of water for at least 15 minutes and get medical attention immediately.
- Ingestion : Keep the victim warm with blanket, etc. and at rest. Give large amounts of water or salt water and induce vomiting. Get medical attention as needed.

5. FIRE FIGHTING MEASURES

- Extinguishing media : Water, dry chemical, carbon dioxide, spray, foam, etc.
- Fire fighting procedures : This product is nonflammable, but in case of surrounding fire, move the container to a safe place. If impossible, cool down the container and surrounding by sprinkling water.

6. ACCIDENTAL RELEASE MEASURES

- Personal safeguards : Always wear protective equipment when handling this product. Rope off the area to keep unauthorized people away.
- Environmental safeguards : Do not rinse with water directly without pre treatment.
- Disposal procedures : Collect as much the spilled liquid as possible with cotton etc. and neutralize with slaked lime and soda ash and wash with large amounts of water.

7. HANDLING AND STORAGE

Handling

Engineering measures : Wear personal protective equipment to avoid contact and inhalation.

Safety handling : Ventilate the area and avoid inhaling the mist. Provide local exhaust system. Handle with care and avoid any physical damage

Storage

Safety storage materials: Keep separated from other materials. Room temperature (10~30°C) and indoor away from direct sunlight

Incompatibles : Oxidizing agents

Safety packing materials: Polyethylene, etc.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective equipment : Safety glasses/gloves/clothing

Facility measures : Provide local exhaust system.

Threshold limits : ACGIH (the year 2007 Edition): Not set

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid

Color : Brown

Odor : None

pH : 3.8

Boiling point : >100°C

Melting point : <0°C

Flammable point : Nonflammable

Ignition point : Nonflammable

Explosion properties : Nonflammable

Density : 1.07g/cm³ (25°C)

Solubility : Easily soluble in water

10. STABILITY AND REACTIVITY

Stability : Stable under normal use conditions.

Reactivity : Stable under normal use conditions.

Conditions to avoid : Heat

Incompatible materials : Oxidizing agents

Hazardous decomposition : None

11. TOXICOLOGICAL INFORMATION

Acute toxicity	: No data available
Skin corrosion/irritation	: No data available
Serious eye damage/eye irritation	: No data available
Sensitization	: (Respiratory sensitization) No data available (Skin sensitization) No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: No data available
Toxic to reproduction	: Boron compound There are effects on fertility of parent animals and development of pups at doses producing no parent toxicity. (NTP DB(Access on May, 2006), CERI hazard data 2001-30(2002))
Specific target organs toxicity	: (Single exposure) Boron compound Symptoms of digestive tract of human: nausea, vomiting, abdominal pain and diarrhea Symptoms of central nerve of human: lethargy, headache, fever, increased irritability, muscle convulsion (CERI hazard data 2001-30(2002)) Irritation of the upper respiratory tract ((ATSDR (1992)) (Repeated exposure) Boric compound Human: nephropathy oliguresis, anuria, renal tubular necrosis. ((CERI hazard data 2001-30 (2002))
Aspiration hazards	: No data available

12. ECOLOGICAL INFORMATION

Toxic to reproduction	: No data available
Persistence/Biodegradability	: No data available
Bioaccumulation	: No data available
Mobility in soil	: No data available
Ozone layer	: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and packaging:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Aviation regulated information

UN Class : Not applicable

UN number : Not applicable

Packing group : Not applicable

Marine regulated information

UN Class : Not applicable

UN number : Not applicable

Packing group : Not applicable

Marine pollution substances : Not applicable

Specific safety measures and conditions on transport:

Handle with care to avoid any physical damage.

Exercise caution with regard to loss and theft in transit or recess.

15. REGULATORY INFORMATION

Observe the applicable international regulations, and the laws of the particular countries affected.

** For applicable Japanese regulations, refer to the Japanese version of this SDS.*

16. OTHER INFORMATION

Reference :

Globally Harmonized System of Classification and Labeling of Chemicals by The Chemical daily Co., Ltd.

Guideline for Material Safety Data Sheet Edition by Japan Chemical Industry Association

Dangerous Goods Regulations by The Japan Air Cargo Institute for Safety

13700 Chemical Products by The Chemical daily Co., Ltd.

Chemical Substances Control Manual by The Chemical daily Co., Ltd.

Emergency Response Guidebook by Japan Chemical Industry Association

2000TLVs and BEIs by ACGIH

Poisonous and Deleterious Substances Control Law Statute Book by Yakumukohosha

Substances listed by PRTR Law/Industrial Safety and Health Law by The Chemical daily Co., Ltd.

Chemical Products Safety Control Data book by The Chemical daily Co., Ltd.

HP with National Institute of Technology and Evaluation (Japan)

SDSs and MSDSs of each raw material company

Date of issue ; Nov. 2, 2016

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