# SAFETY DATA SHEET

Version 3

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### **Product identifier**

Product Name Propidium Iodide

Product Code CP-107

#### Recommended use of the chemical and restrictions on use

For research use only. Not intended for diagnostic or therapeutic use.

#### Details of the supplier of the safety data sheet

IMT Formosa New Materials Co., Ltd.

Rm. 1, 4F., No. 15, Aly. 15, Ln. 71, Changyu St., Sanmin Dist., Kaohsiung City 807, Taiwan (R.O.C.)

Emergency telephone number

+886-926159317

#### 2. HAZARDS IDENTIFICATION

Precautionary Statements - Response

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Classification

Serious eye damage/eye irritation Category 2A
Germ Cell Mutagenicity Category 2
Specific target organ toxicity (single exposure) Category 3

#### Label elements

Signal word Warning

Hazard statements Causes serious eye irritation

Suspected of causing genetic defects

May cause respiratory irritation

Symbols/Pictograms



Precautionary Statements - Prevention Obtain special instructions before use

Do not handle until all safety precautions have been read and

understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after

handling

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing

If eye irritation persists: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing

Precautionary Statements - Storage Store locked up Store in a well-ventilated place. Keep container

tightly closed

Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal

plant

# Hazards not otherwise classified (HNOC)

Hazards not otherwise classified (HNOC)

properties

Not applicable

# **Other Information**

Unknown acute toxicity

100% of the mixture consists of ingredient(s) of unknowntoxicity.

NFPA Health hazards 2
Flammability 0
Stability 0
Physical and chemical \*



HMIS

Health hazards

Flammability

Physical hazards

Personal protection

\* = Chronic Health Hazard

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%	Oral LD50	Dermal LD50	Inhalation LC50	
Propidium Iodide	25535-16-4	>98	-	-		

#### 4. FIRST AID MEASURES

**First Aid Measures** 

General advice Immediate medical attention is required. If symptoms persist, call a physician.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician

immediately. If symptoms persist, call a physician.

Skin Contact Immediate medical attention is required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a

physician.

Inhalation Immediate medical attention is required Remove to fresh air If not breathing, give artificial

respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation Artificial respiration and/or oxygen may be necessary Call a physician Move to fresh air in

case of accidental inhalation of vapors If symptoms persist, call a physician

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Never give

anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water

and drink afterwards plenty of water. Call a physician.

Self-protection of the first aider Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### Most important symptoms and effects, both acute and delayed

Symptoms No information available.

# Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

surrounding environment.

Unsuitable Extinguishing Media No information available.

# Specific hazards arising from the chemical

Specific hazards arising from the

Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

chemical

Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx). Phosgene.

**Explosion data** 

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

No information available No information available.

# Protective equipment and precautions for firefighters

for firefighters

Protective equipment and precautions As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

**Environmental precautions** 

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional

Ecological Information.

#### Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or

tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up

Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Take precautionary measures against static discharges.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. Corrosive hazard. Wear protective gloves/clothing and eye/face protection. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Handle in accordance with good industrial hygiene and safety practice.

# Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly

labeled containers. Protect from moisture. Store at 4 °C.

Incompatible materials None known based on information supplied.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** 

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield. Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly

after handling. Keep away from food, drink and animal feeding stuffs.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid Appearance powder

Odor No information available

<u>Property</u> <u>Values</u>

pH No information available

Melting point/freezing point 220 °C

Boiling point No information available Flash point No information available Liquid Density No information available Evaporation rate No information available Upper flammability limits No information available Lower flammability limit No information available Vapor pressure No information available Vapor density No information available Specific gravity No information available Water solubility No information available Solubility in other solvents No information available Partition coefficient No information available Autoignition temperature No information available

Decomposition temperature 220 ° C

Kinematic viscosity

Explosive properties

Oxidizing properties

No information available
No information available

# 10. STABILITY AND REACTIVITY

Reactivity Not applicable

Chemical stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization No information available.

Conditions to avoid Exposure to air or moisture over prolonged periods.

Incompatible materials Strong oxidizing agents.

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx). Phosgene.

# 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation No data available. Eve contact No data available. Skin Contact No data available. Ingestion No data available.

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Avoid repeated exposure.

**Numerical measures of toxicity - Product Information** 

Unknown acute toxicity 100% of the mixture consists of ingredient(s) of unknown toxicity

# 12. ECOLOGICAL INFORMATION

May cause long lasting harmful effects to aquatic life **Ecotoxicity** 

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Persistence and degradability No information available. Bioaccumulation No information available. Mobility No information available.

#### 13. DISPOSAL CONSIDERATIONS

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging

Do not reuse container.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

# 14. TRANSPORT INFORMATION

DOT Not regulated

**IMDG** Not regulated

**IATA** Not regulated

# 15. REGULATORY INFORMATION

#### **International Inventories**

#### All of the components in the product are on the following Inventory lists

Europe (EINECS/ELINCS/NLP) China (IECSC)

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Propidium Iodide	-	-	-	Х	-	-	X	-	-	-

#### X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

# **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive hazard No

# **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

# **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

# 16. OTHER INFORMATION

Revision note No information available

# **Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**