



## SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Revision: June 16, 2016

Version 6

### 1. PRODUCT AND COMPANY IDENTIFICATION

Production Name :

Globalene 8491, 8492, 8493, 8494, 8191

Product Description : Propylene/Ethylene copolymer Pellets

Manufactures :

LCY Chemical Corp.

Plant Site

No. 2, Jingjian Road, Dashe District,

Kaohsiung City 81567, Taiwan

Taipei Office

3F, 85, Sec. 4, Bade Road, Taipei 105, Taiwan

Phone Numbers

24 Hr. Emergency : (886) 7-351 3211

Emergency : (886) 2-2528 8895

### 2. HAZARDS IDENTIFICATION

Emergency Overview

PHYSICAL APPEARANCE: Translucent to white solid pellets

**IMMEDIATE CONCERNS:** Spilled material may present a slipping hazard. This product as shipped is not classified as a combustible dust; however, a combustible concentration of dust may occur if fines are suspended in air. Avoid contact with strong oxidizing agents. When working with the material at temperatures above the melting point, the material will begin to decompose producing fumes that can contain carbon dioxide, carbon monoxide, ketones, acrolein, formaldehyde, aldehydes and other unidentified organic compounds that come from the breakdown of the material. Adequate room and extruder ventilation should be provided to minimize exposures.

#### POTENTIAL HEALTH EFFECTS

EYES: Dust and process vapors may irritate eyes.

SKIN: Exposure to molten resin may cause thermal burns.

INGESTION: Not Applicable

INHALATION: Dust and process vapors may cause respiratory tract irritation.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Irritation or redness.

SKIN: Not Applicable

INGESTION: Not Applicable

INHALATION: Irritation of the nose, throat and respiratory tract.

ACUTE TOXICITY: Dust and process vapors may cause eye and respiratory tract irritation.

CHRONIC: None Known

CARCINOGENICITY: None Known

MUTAGENICITY: None Known



台北公司 · 105 台北市八德路四段 85 號 3 樓  
3F, 85, Sec. 4, Bade Road, Taipei 105, Taiwan, ROC

工廠 · 81567 高雄市大社區經建路 2 號  
No. 2, Jingjian Road, Dashe District,  
Kaohsiung City 81567, Taiwan, ROC

Tel · 886-2-25288895 Fax · 886-2-25288823  
Tel · 886-7-3513211 Fax · 886-7-351542



## REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: None Known

TERATOGENIC EFFECTS: None Known

MEDICAL CONDITIONS AGGRAVATED: None Known

ROUTES OF ENTRY: Eye, Inhalation

TARGET ORGAN STATEMENT: None Known

CANCER STATEMENT: This product is not considered to be a carcinogen by OSHA, IARC or NPT.

IRRITANCY: Exposure to dust and process vapors may cause eye and respiratory tract irritation.

SENSITIZATION: None Known

WARNING CAUTION LABELS: Burn Risk - Avoid contact with molten resin.

Explosion Risk - Prevent accumulation of dust particles.

Slipping Risk - Keep walking surfaces free of spilled material.

Vapor Risk - Provide ventilation to avoid exposure to process vapors.

COMMENTS HEALTH: None

HEALTH HAZARDS: Process vapors may cause eye and respiratory tract irritation.

PHYSICAL HAZARDS: Spilled material may present a slipping hazard.

Exposure to molten resin may cause thermal burns.

## CLASSIFICATION SYSTEM

These products are not classified as hazardous in accordance with (EC) NO 1272/2008, 1907/2006/EC and following amendments.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

The product is a propylene-ethylene copolymer (CAS# 9010-79-1) and contains no substance classified as hazardous.

## 4. FIRST AID MEASURES

**EYES:** Flush eyes with water for 15 minutes. Get medical attention.

**SKIN:** Molten Resin: If molten material comes in contact with the skin, cool under ice water or a running stream of water. DO NOT attempt to remove the material from the skin. Removal could result in severe tissue damage. Get medical attention.

**INGESTION:** Not Applicable

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**ANTIDOTES:** Not Applicable

**NOTES TO PHYSICIAN:** None

**ADDITIONAL INFORMATION:** None

## 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** Not Determined

**FLAMMABLE LIMITS:** Not Determined

**AUTOIGNITION TEMPERATURE:** Not Determined

**EXTINGUISHING MEDIA:** Use foam, carbon dioxide, or water spray when fighting fires involving this material.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, carbon monoxide, ketones, acrolein, formaldehyde, aldehydes



台北公司 · 105 台北市八德路四段 85 號 3 樓  
3F, 85, Sec. 4, Bade Road, Taipei 105, Taiwan, ROC

工廠 · 81567 高雄市大社區經建路 2 號  
No. 2, Jingjian Road, Dashe District,  
Kaohsiung City 81567, Taiwan, ROC

Tel · 886-2-25288895 Fax · 886-2-25288823  
Tel · 886-7-3513211 Fax · 886-7-351542



and other unidentified organic compounds.

**EXPLOSION HAZARDS:** Product as shipped is not a combustible dust. However, a combustible concentration of dust may occur when fines are suspended in air.

**FIRE FIGHTING PROCEDURES:** Standard procedures for Class A fires.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained pressure demand breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

**SENSITIVE TO STATIC DISCHARGE:** Static discharge could be an ignition source for a combustible concentration of dust.

**SENSITIVITY TO IMPACT:** Not Applicable

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Sweep up material and place in a disposal container.

**LARGE SPILL:** Vacuum or sweep up material and place in a disposal container.

**ENVIRONMENTAL PRECAUTIONS**

**WATER SPILL:** Keep pellets out of waterways.

**LAND SPILL:** Not yet Determined

**AIR SPILL:** Not yet Determined

**GENERAL PROCEDURES:** Vacuum or sweep up material and place in a disposal container.

**RELEASE NOTES:** None

**SPECIAL PROTECTIVE EQUIPMENT:** None

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Keep away from heat, sparks and flame.

**HANDLING:** Ground and bond containers when transferring material.

**STORAGE:** This product may react with strong oxidizing agents and should not be stored near such materials. Store boxes and bags of material in areas protected with automatic sprinklers.

**COMMENTS:** Stacks can fall over within a few minutes when bottom bag(s) is(are) leaking product. Before repairing the leaking bag(s) the top bag/pallet (if any) must be removed.

**STORAGE TEMPERATURE:** Store in a cool place below 60°C (140°F).

**STORAGE PRESSURE:** Not Determined

**LOADING TEMPERATURE:** Not Determined

**LOADING/UNLOADING VISCOSITY:** Not Determined

**SHELF LIFE:** Not Determined

**SPECIAL SENSITIVITY:** Not yet Determined

**ELECTROSTATIC ACCUMULATION HAZARD:** Material may accumulate static charges during transfers, ground and bond containers when transferring

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Provide adequate room ventilation at the extruder to minimize exposure to process vapors.

Eliminate ignition sources during repair and maintenance operations.

**PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Wear safety glasses with side shields (or goggles).

**SKIN:** When handling or processing resins at elevated temperatures or in a molten state, wear protective clothing over the skin



台北公司 · 105 台北市八德路四段 85 號 3 樓  
3F, 85, Sec. 4, Bade Road, Taipei 105, Taiwan, ROC

工廠 · 81567 高雄市大社區經建路 2 號  
No. 2, Jingjian Road, Dashe District,  
Kaohsiung City 81567, Taiwan, ROC

Tel · 886-2-25288895 Fax · 886-2-25288823  
Tel · 886-7-3513211 Fax · 886-7-351542



to prevent contact. Wear suitable gloves.

**RESPIRATORY:** A respiratory protection program that meets OSHA 1910.134, ANSI Z88.2 and/or CSA Z94.4-93 requirements must be followed whenever workplace conditions warrant use of a respirator.

**PROTECTIVE CLOTHING:** When handling or processing resins at elevated temperatures or in a molten state, wear protective clothing over the skin to prevent contact.

**WORK HYGIENIC PRACTICES:** Not Established

**OTHER USE PRECAUTIONS:** Eyewash fountains and safety showers should be easily accessible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b> Pellet, transparent to white	<b>ODOUR:</b> Odourless
<b>ODOUR THRESHOLD:</b> Not applicable	<b>pH:</b> Not applicable
<b>MELTING POINT:</b> > 120°C (248°F)	<b>BOILING POINT / BOILING RANGE:</b> Not applicable
<b>FLASH POINT:</b> Not applicable	<b>EVAPORATION RATE:</b> Not Applicable
<b>FLAMMABILITY:</b> Flammable	<b>EXPLOSIVE LIMIT:</b> Not applicable
<b>VAPOUR PRESSURE:</b> Not applicable	<b>VAPOUR DENSITY:</b> Not applicable
<b>RELATIVE DENSITY:</b> 0.88 ~ 0.92	<b>SOLUBILITY(IES):</b> Insoluble in water
<b>PARTITION COEFFICIENT(N-OCTANOL/WATER);</b> Not applicable	<b>IGNITION TEMPERATURE:</b> >400°C (752°F)
<b>DECOMPOSITION TEMPERATURE:</b> >300°C (572°F)	<b>VISCOSITY:</b> Not available

## 10. STABILITY AND REACTIVITY

**STABLE:** YES

**HAZARDOUS POLYMERIZATION:** NO

**CONDITIONS TO AVOID:** Keep away from heat, sparks and flame.

**POLYMERIZATION:** Product will not undergo polymerization.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

At elevated temperatures the material will begin to decompose, producing fumes that can contain carbon dioxide, carbon monoxide, ketones, acrolein, formaldehyde, aldehydes and other unidentified organic compounds.

**INCOMPATIBLE MATERIALS:** Oxidizing materials.

## 11. TOXICOLOGICAL INFORMATION

**GENERAL COMMENTS:** None Known

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Not Available

**ECOTOXICOLOGICAL INFORMATION:** Not Available

**DISTRIBUTION:** Not Available

**CHEMICAL FATE INFORMATION:** Not readily biodegradeable.

### 13. DISPOSAL CONSIDERATIONS

#### DISPOSAL METHOD:

(1) These products can be used or recycled according to the regulation of Guideline EC 94/62. (2) Incineration including energy recovery of waste material in a permitted facility in accordance with local, state or provincial and federal regulations. (3) Landfilling in a licensed facility in accordance with local, state or provincial and federal regulations.

#### RCRA HAZARD CLASS:

This product is not judged to be a hazardous waste by any local, state or federal regulations; however, it may be listed as industrial waste in some states or provinces. This product is not listed in the U.S. federal hazardous waste regulations, 40 CFR 261.33 paragraphs (e) or (f), i.e., chemical products that are considered hazardous if they become wastes. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261 Subpart C. State or local hazardous waste regulations may apply if different from the federal. [European waste catalogue 070213](#).

### 14. TRANSPORT INFORMATION

**SPECIAL SHIPPING NOTES:** This product is not regulated by DOT, IMO, IATA, Canadian TDG and associated regulations, ADR or RID.

### 15. REGULATORY INFORMATION

#### UNITED STATES

##### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA STATUS:** All ingredients in this product are in compliance with TSCA.

**OSHA HAZARD COMM. RULE:** This product is not considered a hazardous material at temperatures below the melting point as determined by LCY according to OSHA definitions.

**CLEAN WATER ACT:** This product is regulated under EPA's Clean Water Act/NPDES rules as "floating material". In addition, this product is considered "significant material" under the EPA's storm water permit rules.

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**TITLE III NOTES:** This product is not subject to SARA Title III requirements.

#### CANADA

##### WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM):

This product is not considered a controlled substance under WHMIS. This MSDS meets WHMIS format requirements.

**CANADIAN ENVIRONMENTAL PROTECTION ACT:** All ingredients in this product are listed under CEPA on the DSL.

#### EUROPEAN COMMUNITY

**EUROPEAN COMMUNITY REGULATORY:** All ingredients in this product are in compliance with EINECS/ELINCS.

#### **DESIGNATION according to EC guidelines**

To the extent of our knowledge, these products are not subject to classification according to EC lists and other sources of literature.



台北公司 · 105 台北市八德路四段 85 號 3 樓  
3F, 85, Sec. 4, Bade Road, Taipei 105, Taiwan, ROC

工廠 · 81567 高雄市大社區經建路 2 號  
No. 2, Jingjian Road, Dashe District,  
Kaohsiung City 81567, Taiwan, ROC

Tel · 886-2-25288895 Fax · 886-2-25288823  
Tel · 886-7-3513211 Fax · 886-7-351542



## 16. OTHER INFORMATION

### MANUFACTURER DISCLAIMER:

The information contained in this MSDS has been compiled from sources, which LCY considers reliable and accurate to the best of LCY's Knowledge. The information relates only to the specific product described above, and not to use of the product in combination with another material. Customers and other users should read this MSDS and the product label carefully before using the product. LCY neither assumes, nor authorizes anyone to assume on LCY's behalf, any liability in connection with the use of the information in this MSDS.

Customers and other users should do their own testing before making commercial use of the product to ensure that the product is fit for the intended application and that the product can be used, and any waste material disposed of, safely, properly, and legally based on the customer's or other user's circumstances.

LCY makes no warranties, express or implied, with respect to the product, including (without limitation) warranties of merchantability or fitness for a particular purpose. The customer or other user of the product assumes all risk and liability arising out of the use of the product, whether used alone or in combination with other materials. LCY's liability, if any, for breach of contract, breach of warranty, negligence (including that of LCY) or other tort, strict liability, or any other claim shall not exceed in amount the purchase price of LCY products with respect to which such cause arose. In no event shall LCY be liable for consequential, special, or incidental damages.



台北公司 · 105 台北市八德路四段 85 號 3 樓  
3F, 85, Sec. 4, Bade Road, Taipei 105, Taiwan, ROC

工廠 · 81567 高雄市大社區經建路 2 號  
No. 2, Jingjian Road, Dashe District,  
Kaohsiung City 81567, Taiwan, ROC

Tel · 886-2-25288895 Fax · 886-2-25288823  
Tel · 886-7-3513211 Fax · 886-7-351542

