

SILYMARIN

-MATERIAL SAFETY DATA SHEET -

SECTION 1 - CHEMICAL PRODUCT AND COMPANY

IDENTIFICATION

MSDS Name	: SILYMA
Company Identification	: KareBay
For information call	: 732-823-
For emergencies fax	: 732-823-
For further enquiries	: product(

ARIN

- TM Biochem, Inc.
- -1545
- -1349
- @karebaybio.com

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Silymarin	22888-70-6	100

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

May cause skin and eye irritation. May cause irritation of respiratory tract.

Odor	Physical state	Appearance	Color
No information	Solid	Powder. Crystalline	Light brown. Beige.
available		powder. Crystals.	Light yellow.

OSHA Regulatory Status

This material is not considered hazardous by the OSHA Hazard Communication Standard (291910.1200)

SECTION 4 - FIRST AID MEASURES

General Advice:

Poison information centres in each State capital city can provide additionalassistance for scheduled poisons (13 1126)

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops.



Eye Contact:

Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. In case of shortness of breath, give oxygen. Get medical attention.

Ingestion:

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Notes to Physician:

Treat symptomatically

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties	
Flashpoint (°C/°F):	No information available.
Tested according to:	Not available
Lower Explosion Limit (%):	No information available
Upper Explosion Limit (%):	No information available
Autoignition Temperature (°C	C/ F): Not applicable.
Suitable Extinguishing Media	:
Carbon dioxide (CO2). Dry ch	emical. Water spray mist or foam.
Unsuitable Extinguishing Med	lia:
No information available.	
Hazardous Combustion Produ	icts:
Carbon monoxide; Carbon diox	ide
Specific hazards:	
May be combustible at high ter	mperatures.
Special Protective Equipment	-
As in any fire, wear self-contain	ned breathing apparatus pressure-demand, MSHA/NIOSH (approved
or equivalent) and full protectiv	
	C C

Specific Methods: No information available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.

Environmental Precautions:

No information available ...

Methods for Cleaning Up:

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean



contaminated surface thoroughly.

SECTION 7 - HANDLING and STORAGE

Handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Freeze. Store at 0 $\,$ °C. Store away from incompatible materials.

Incompatible Products:

No information available. No materials to be specially mentioned.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective Equipment

Eye protection:Safety glasses. Safety glasses with side-shields.Skin and body protection:Long sleeved clothing. Chemical resistant apron. Gloves.Respiratory protection:Wear respirator with dust filter.Hygiene measures:Avoid contact with skin, eyes and clothing.National occupational exposure limits

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Component Information

Appearance: Powder. Crystalline powder. Crystals. Melting point/range(C/F): No information available Taste



No information available

Decomposition temperature(\mathcal{C}/\mathcal{F}): No information available Specific gravity: No information available Molecular/Formula weight: No information available **Density (g/cm3):** No information available **Bulk density:** >0.48 g/ml Vapor pressure @ 20 °C (kPa): No information available **Flash point** ($^{\circ}$ **C**): Not applicable Vapor density: No information available **Color:** Light brown. Beige. Light yellow. Evaporation rate: No information available **VOC content (g/L):** No information available **Lower Explosion Limit (%):** Not applicable **Odor threshold (ppm):** No information available **Partition coefficient** (**n-octanol/water**): No information available **Miscibility:** No information available **Upper Explosion Limit (%):** Not applicable

SECTION 10 - STABILITY AND REACTIVITY

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

Silymarin - 22888-70-6 **LD50/oral/rat** = No information available LD50/oral/mouse = > 1600 mg/kg Oral LD50 Mouse **LD50/dermal/rabbit** = No information available **LD50/dermal/rat** = No information available **LC50/inhalation/rat** = No information available **LC50/inhalation/mouse** = No infomaton available **Other LD50 information** =No information available **Product Information LC50/inhalation/rat** = No information available **LC50/Inhalation/mouse** = No information available **LD50/dermal/rabbit** = No information available **LD50/dermal/rat** = No information available LD50/oral/rat = No information available **LD50/oral/mouse** = >1600 mg/kg**Local Effects** Skin irritation: May cause skin irritation. **Eve irritation:** Contact with eyes may cause irritation.



May cause irritation of respiratory tract.

Inhalation: Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May cause dyspepsia. May cause flatulence. May cause bloating. May cause abdominal pain. May cause anorexia. May affect liver .

Sensitization: No information available

Chronic Toxicity

Chronic Toxicity

Prolonged or repeated ingestion may affect the digestive system and cause symptoms similar to that of acute exposure. Prolonged or repeated ingestion may cause loss of appetite. Prolonged or repeated ingestion may affect the blood (changes in serum composition). Prolonged or repeated ingestion may affect the urinary system. Prolonged or repeated ingestion may affect the liver. Prolonged or repeated ingestion may cause headache, insomnia, tiredness, fatigue, weakness.

Carcinogenic	effects:		Not considered	d carcinogenic		
Components	NTP	IARC	OSHA HCS -Carcinogens	ACGIH - Carcinogens	Australia - Prohibited	Australia - Notifiable
					Carcinogenic	Carcinogenic
					Substances	Substances
Silymarin	Not	Not	Not listed	Not listed	Not listed	Not listed
	listed	listed				

Mutagenic Effects: Reproductive Effects: Teratogenic Effects: Target Organs: May affect genetic material . No information available No information available No information available

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: No information available

Ecotoxicity effects:	No data available.
Aquatic toxicity:	No information available
Mobility:	No information available
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components RCRA - F Series Wastes RCRA - K Series Wastes RCRA - P Series Wastes RCRA - U Series





Silymarin

None

None

None

None

Wastes

SECTION 14 - TRANSPORT INFORMATION

DOT **UN-No: Proper Shipping Name:** Hazard Class: **Packing Group: Subsidiary Risk: Marine Pollutant** ERG No: DOT RQ (lbs): **TDG** (Canada) **Proper Shipping Name:** UN-No: Hazard Class: **Packing Group: Subsidiary Risk: Description:** ADR **Proper Shipping Name:** UN-No: Hazard Class: **Packing Group: Subsidiary Risk: Classification Code: Description: CEFIC Tremcard No:** IMO / IMDG **Proper Shipping Name: UN-No:** Hazard Class: **Subsidiary Risk: Packing Group: Description: IMDG Page: Marine Pollutant MFAG: Maximum Quantity:** RID **Proper Shipping Name:**

Not regulated No information available No information available None Not applicable No data available No information available No information available

No information available Not Regulated No information available No information available No information available No information available

No information available Not Regulated No information available No information available No information available No information available No information available

No information available Not Regulated No information available No information available

No information available



UN-No: Hazard Class: **Packing Group : Subsidiary Risk Classification Code: Description: ICAO** UN-No: Hazard Class: **Proper Shipping Name: Packing Group: Subsidiary Risk: Description: IATA Proper Shipping Name:** UN-No: **Hazard Class: Packing Group: Subsidiary Risk: Description:**

Not Regulated No information available No information available No information available No information available No information available

Not Regulated No information available No information available No information available No information available

No information available Not Regulated No information available No information available No information available No information available

SECTION 15 - REGULATORY INFORMATION

SECTION 16 - ADDITIONAL INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information this document is based on the resent state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. karebay shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.