MATERIAL SAFETY DATA SHEET

Galata Chemicals

MARK® 1984E

Version:	2.0
Date of Issue:	11/20/2010
Date printed:	01/24/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : MARK® 1984E

Chemical name: Preparation containing organotin compounds

Use of substance/preparation: PVC Stabilizer

Supplier:
Galata Chemicals, LLC
471 Highway 3142
Hahnville, LA 70057 USA

Emergency telephone number: 760-476-3971 ACCESS CODE: 333256 (24 hours)

Environmental, Health and Safety Department: +985-783-6201

Customer Service: +985-783-6201

Prepared by
Product Safety Department Date of Issue: 11/20/2010
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2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
CAUTION!
HARMFUL IF SWALLOWED.
MAY CAUSE EYE AND SKIN IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE IF SWALLOWED.
HARMFUL TO AQUATIC ORGANISMS.
MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	% BY WEIGHT
Methyltin tris(2-ethylhexyl mercaptoacetate) **CAS#** 57583-34-3	
Dimethyltin bis(2-ethylhexyl mercaptoacetate) **CAS#** 57583-35-4	

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4. FIRST AID MEASURES

Swallowing
Give medicinal activated charcoal 10 g in 100 ml water at 20 minute intervals (5 x). In case of spontaneous vomiting ensure that vomitus can drain freely to avoid risk of suffocation. Drink water in small sips. (Diluting effect) Do not induce vomiting. In case of inconsciousness or convulsion no oral administration. Obtain medical attention immediately.

Inhalation
Remove to fresh air. In case of irritation of respiratory system or mucous membranes or if feeling unwell or after prolonged exposure get medical attention.

Skin contact
Wash with plenty of water or isopropanol. Do not use organic solvents. If redness or irritation occurs, seek medical attention.

Eye contact
Immediately flush eyes with water and continue washing for at least 15 minutes. If redness or irritation occurs, seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash point: **239 °F** **115 °C**

NFPA CLASSIFICATION

Health: 1	Flammability: 1	Reactivity: 0	Special provisions:

Hazardous combustion products
If handled as instructed: none
Burning can produce the following combustion products:
Oxides of sulfur.
Oxides of tin.
Carbon dioxide.
Carbon monoxide.

Special fire fighting procedures
Do not release chemically contaminated water into drains, soil or surface water.

Special protective equipment for firefighters
Wear self-contained breathing apparatus.

Extinguishing media
Suitable: **- water**
- CO2
- dry powder (ABC-powder)
- foam

Unsuitable: **High volume water jet.**

Unusual fire and explosion hazards
In case of a fire aside from the major combustion products carbon dioxide and carbon monoxide other harmful gases and vapors may be formed., Especially the formation of sulfur dioxide must be taken into account.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Do not breath vapors/aerosols., Eliminate sources of ignition., Avoid contact with skin and eyes.

Environmental precautions
Prevent from entering sewer system, surface water or soil., Disposal: see section 13

Methods for cleaning up
Large quantities:
Dike spilled product with liquid absorbing material and pump off.
Small quantities:
Soak up with liquid absorbing material (sand etc.) and dispose of as instructed.

7. HANDLING AND STORAGE

HANDLING
Handling precautions
Do not swallow., Avoid prolonged or repeated contact with skin., Avoid formation of vapors/aerosols., Keep away from sources of ignition - No smoking., Use only in well ventilated areas., On occurence of vapors/aerosols take technical measures for effective exhaust.

Other precautions
The material is combustible and can form ignitable, explosive air/vapor mixtures., Take precautionary measures against static discharges.

STORAGE
Storage requirements
Keep container tightly closed in a cool, well-ventilated place.

Further information on storage
Avoid contact with oxidizing agents or strong acids/bases.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

Component	Type	Value	Remark
Tin compound, organic (calculated as tin)	TWA (skin), OSHA & ACGIH	0.1 mg/m3	as Sn
	STEL (skin), ACGIH	0.2 mg/m3	as Sn

PERSONAL PROTECTION

Respiratory protection
NIOSH approved respirator with dual organic vapor/mist and particulates cartridge if vapor concentration exceeds permissible exposure limit.

Hand protection / protective gloves
Gauntlet type gloves of nitrile rubber or butyl rubber recommended; for short time contact PVC is suitable.

Eye protection
Safety glasses.

Skin protection
Chemical resistant protective clothing., Closed footwear

Industrial hygiene measures
When using do not eat, drink or smoke., Immediately remove contaminated clothing.

ENGINEERING CONTROLS

Ventilation
General mechanical room ventilation is satisfactory for normal handling and storage operations., If personnel exposure exceeds exposure limits, apply local exhaust ventilation., If the product is used at high temperatures or operations exist which may produce misting, local exhaust ventilation may be required.

Further information
Provide for sufficient ventilation and/or exhaust.

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	Liquid
Color	Colorless to straw
Odor	Slight alkanol

OTHER PROPERTIES

Boiling point	> 250 °C at 1,013 hPa
Density	1.16 g/cm3 at 20 °C Method: DIN 51757
Solubility in water	< 0.1 mg/l
Solubility in organic solvents	Soluble
Flash point	239 °F 115 °C Method: DIN 51 758
Thermal decomposition	>= 200 °C

10. STABILITY AND REACTIVITY

Stability: Stable.

Incompatible materials:
Bases.
Acids.
Oxidizing agents.

Hazardous combustion products:
If handled as instructed: none
Burning can produce the following combustion products:
Oxides of sulfur.
Oxides of tin.
Carbon dioxide.
Carbon monoxide.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

SWALLOWING

Chronic effects
In animal studies with repeated oral application of dimethyl tin compounds toxic effects were observed on the immune system.

Test results
Acute toxicity: LD50 Rat
Result: 1,145 - 1,840 mg/kg

SKIN ABSORPTION
Test results

Acute toxicity:	LD50 - rabbit: Result: > 1,000 mg/kg

SENSITIZATION

Test results: Remark: Effects to be expected according to calculation scheme laid down in EC-Directive 1999/45/EC and amendments and adaptions:
sensitizing

12. ECOLOGICAL INFORMATION

Biodegradation: Remark: Methyltin compounds proved to be not readily biodegradable in degradation tests.

Additional information
Effects to be expected according to calculation scheme laid down in EC-Directive 1999/45/EC and amendments and adaptions: 10 mg/l < aquatic toxicity <= 100 mg/l

13. DISPOSAL CONSIDERATIONS

General: Incinerate in a furnace or landfill where permitted under appropriate Federal, State, and local regulations., Dispose of in accordance with appropriate Federal, State, and local regulations.

Non-cleaned packages
Dispose of in the same way as product., Can be reused after cleaning., Dispose of washing solution in the same way as product.

14. TRANSPORT INFORMATION

DOT Classification

This product is not regulated by DOT.

IMDG Classification

NOT REGULATED

ICAO/IATA Classification
NOT REGULATED

15. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.
Components present in this product at a level which could require reporting under the statute are:
**** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) in 40CFR355 (used for SARA 302 and 304).
Components present in this product at a level which could require reporting under the statute are:

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**** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.
Components present in this product at a level which could require reporting under the statute are:
**** NONE ****

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
Methyltin tris(2-ethylhexyl mercaptoacetate)	57583-34-3	
Dimethyltin bis(2-ethylhexyl mercaptoacetate)	57583-35-4	

California Proposition 65
**** NONE ****

CHEMICAL INVENTORY

Canada:	The ingredients of this product are on the DSL.
Europe:	The ingredients of this product are on the EINECS inventory.
United States:	The ingredients of this product are on the TSCA inventory.
Australia:	The ingredients of this product are on the AICS inventory.
China:	The ingredients of this product are on the IECSC inventory.
Japan:	The ingredients of this product are on the ENCS inventory.
Korea:	The ingredients of this product are on the ECL.
Philippines:	The ingredients of this product are on the PICCS.

16. OTHER INFORMATION

HMIS RATING

Health: 1	Flammability: 1	Reactivity: 0	PPI:

STP	Standard temperature and pressure
W/W	Weight/Weight 0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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