VIKAS ECOTECH LTD.
(Formerly Vikas Globalone Ltd.)

www.vikasecotech.com

MATERIAL SAFETY DATA SHEET

UPDATED ON: 1ST January 2016

Section 1 – Chemical Product and Company Identification

- **Product:** **TINMATE 201 LS**
  Methyltin Mercaptide
  PVC Heat Stabilizer

- **Product Description:** TINMATE 201 LS is highly effective liquid methyl tin PVC stabilizer, especially designed for thermally stabilizing Vinyl copolymers, that provides good early colour control and long term stability facilitating excellent transparency and colour hold with superior processing stability.

- **PRODUCT GRADE / CODE:** TINMATE 201 LS
- **CAS No.:** 57583-35-4

- **Manufacturer's Name:** Vikas Ecotech Ltd. New Delhi India

- **PREPARED BY:** SENIOR CHEMIST

Section 2 – Composition/Information on Ingredients

- **MAIN COMPONENTS:**

COMPONENT	CAS No	CONCENTRATION
Bis(2-ethylhexylthioglycolate)Dimethyltin	57583-35-4	70.0 - 80.0%
Tris(2-ethylhexylthioglycolate)methyl tin	57583-34-3	20.0 - 30.0%
Thio ester	Trade Secret	1.0 - 5.0%

- **HAZARDOUS INGREDIENTS:**

	%W/W	CAS #	TLV
ALKYLTIN(ALKYLMERCAPTOESTER)S	60-100	*	ACGIH TWA= 0.1
LD50: 1,100-1,840 MG/KG (ORAL-RATS)			MG/M3 AS SN (SKIN)

LD50: 1,000-2,150 MG/KG (DERMAL-RABBITS)			ACGIH STEL = 0.2
LC50: 240 MG/L (1- HR.-INHALATION-RATS)			MG/M3 AS SN (SKIN)
ALKYL MERCAPTOESTER	1-5	*	NE
LD50:			NE
ADDITIONAL INGREDIENT INFORMATION (WHMIS NOT CONTROLLED):			NA

Section 3 – Hazards Identification

- **SKIN:** MAY CAUSE MILD IRRITATION AND/OR SKIN ALLERGY.
- **EYES:** MAY CAUSE MILD IRRITATION.
- **INHALING:** MAY CAUSE NAUSEA & VOMITTING.
- **EXPOSURE:** PROLONGED OVEREXPOSURE MAY EFFECT GENERAL HEALTH AND GENERAL INDUSTRIAL PRIACTICES SHALL BE FOLLOWED WHILE HANDLING & USAGE.

Section 4 – First Aid Measures

- **EYES:** FLUSH EYES WITH WATER; SEEK MEDICAL HELP IF THE IRRITATION PERSISTS.
- **SKIN:** WASH SKIN WITH WATER AND SOAP. SEEK MEDICAL HELP IF THE IRRITATION PERSISTS.
- **INHALATION:** MOVE TO FRESH AIR, SEEK MEDICAL HELP.
- **INGESTION:** DO NOT GIVE LIQUIDS, SEEK MEDICAL HELP IMMIDIATELY

Section 5 – Fire Fighting Measures

- **FIRE HAZARD:**
  - BOILING POINT: > 221 °C (> 429.98 °F)
  - FLASH POINT 150 °C (302.00 °F)
  - GENERALLY INFLAMABLE: HOWEVER MAY BURN AT ELEVATED TEMPRATURES.
  - EXTINGUISHING MEDIA: WATER / Co_2 FOAM.
  - COMBUSTION GENERATES TOXIC FUMES OF THE FOLLOWING: CARBONDIOXIDE, SULFUR OXIDES.
  - HIGH TEMPERATURES CAN CAUSE SEALED CONTAINERS TO RUPTURE DUE TO A BUILD UP OR OF INTERNAL PRESSURE.

Section 6 – Accidental Release Measures

- HIGH TEMPERATURES CAN CAUSE SEALED CONTAINERS TO RUPTURE DUE TO A BUILD UP OR OF INTERNAL PRESSURE.

Section 7 – Handling and Storage

- **HANDLING:**
  - USE PROTECTIVE EQUIPMENT ETC.
  - AVOID SPILL WHICH CAN CREATE SLIPPERY CONDITIONS.
  - AVOID BREATHING VAPOURS.
  - WASH THOROUGHLY AFTER HANDLING, KEEP THE CONTAINERS CLOSED.
- **STORAGE:**
  - INDOOR STORAGE IS RECOMMENDED, STORE IN DRY, VENTILATED PLACE.
  - PLASTIC DRUM OR STAINLESS STEEL USE FOR STORING, PIPING, FOR

STORAGE / TRANSFER OF MATERIAL SHOULD BE HANDLED WITH NORMAL PRECAUTIONS FOR ORGANIC LIQUIDS.

Section 8 – Exposure Control/Personal Protection

- **SKIN:** MAY CAUSE MILD IRRITATION AND/OR SKIN ALLERGY.
- **EYES:** MAY CAUSE MILD IRRITATION.
- **INHALING:** MAY CAUSE NAUSEA & VOMITTING.

Section 9 – Physical and Chemical Properties

- **Physical & Chemical Properties:**

Particulars		TINMATE 201 LS	Testing Procedure
	Unit	Standard	
Appearance		Clear colourless Liquid	Visual
Color	(Gardner)	< 1	By Comparator
Viscosity at 25 ◦ C	**cSt**	70 Max	Ostwalt Viscometer(U tube)
Specific Gravity at 20 ◦ C		1.17 min	Hydrometer
Refractive Index at 25 ◦ C		1.507-1.511	Refractometer

Section 10 – Stability and Reactivity

- Generally Stable / Non Reactive
- Incompatible To : Acids

Section 11 – Toxicological Information

- AVOID CONTACT WITH SKIN: MAY CAUSE IRRITATION AND / OR SKIN ALLERGY, WEAR GLOVES, AVOID SPILLAGE.
- AVOID CONTACT WITH EYES: MAY CAUSE IRRITATION, WEAR PROTECTIVE SAFETY GLASSES.
- AVOID INHALING: MAY CAUSE NAUSEA & VOMITTING.

Section 12 – Ecological Information

- METHYLTIN COMPOUNDS ARE NATURALLY PRESENT IN THE ENVIRONMENT AND LIKELY RESULT FROM AEROBIC AND ANAEROBIC METHYLATION OF INORGANIC TIN. METHYL TIN HEAT STABILIZERS ARE NOT SOLUBLE IN WATER. THEY HAVE THE LIMITED POTENTIAL TO HARM AQUATIC ORGANISMS; HOWEVER CONCENTRATIONS OF THESE PRODUCTS ARE UNLIKELY TO BE REACHED DUE TO THE INDUSTRY-WIDE STEWARDSHIP PRICTICES THAT ARE IN PLACE TO LIMIT

ENVIROMENTAL RELEASES OF METHYL TIN HEAT STABILIZERS ARE EXPECTED TO BE MINIMAL. SHOULD RELEASES OCCUR THEY WOULD GENERALLY BE TO WATER. THESE MATERIALS WILL TEND TO PARTITION TO AQUATIC SEDIMENTS AND TO SUSPENDED PARTICULATE MATTER IN THE WATER. EVAPORATION OF THESE PRODUCTS IS EXPECTED TO BE NEGLIGIBLE.

Section 13 – Disposal Considerations

- DISPOSAL: REFER TO ALL FEDERAL, STATE AND LOCAL REGULATIONS PRIOR TO DISPOSITION. IF UNABLE TO MANAGE, CONTACT A FACILITY THAT COMPLIES WITH LOCAL, STATE, AND FEDERAL REGULATIONS

Section 14 – Transport Information

- TRANSPORTATION: NOT REGULATED

Section 15 – Regulatory Information

- NA

Section 16 – Other Information

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