



BAEROSTAB M 25 SA

Version 1.1

Revision Date 06/02/2020

SECTION 1. IDENTIFICATION

Product identifier

Trade name : **BAEROSTAB M 25 SA**

Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-
stance/Mixture : Manufacture of plastics products
Polymer additive
Stabilizer

Recommended restrictions
on use : None known.

Details of the supplier of the safety data sheet

Company : Baerlocher Production USA LLC
5890 Highland Ridge Drive
Cincinnati, OH 45232
Telephone : Day 330-602-1528 or 330-602-1531
: Night 513-207-1620 or 513-604-2327
E-mail address : Hotline.PS@baerlocher.com
Responsible/issuing person : Product Safety Department

Emergency telephone number (0 - 24 h)

Tel.: 800-424-9300 USA or 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 4
Acute toxicity (Dermal) : Category 3
Skin irritation : Category 2
Eye irritation : Category 2A
Skin sensitisation : Category 1
Germ cell mutagenicity : Category 2
Reproductive toxicity : Category 1B
Specific target organ toxicity : Category 1 (thymus)
- single exposure
Specific target organ toxicity : Category 1 (thymus)
- repeated exposure



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GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H302 + H332 Harmful if swallowed or if inhaled.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H341 Suspected of causing genetic defects.
H360FD May damage fertility. May damage the unborn child.
H370 Causes damage to organs (thymus).
H372 Causes damage to organs (thymus) through prolonged or repeated exposure.

Precautionary statements

: **Prevention:**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

Storage:

P405 Store locked up.



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Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Combustible material

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Preparation containing mono and dibutyltin thioester.

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Monobutyltin-tris(2-ethylhexylthioglycolate)	26864-37-9	≤ 25
Dibutyltin bis(ethylhexylthioglycolate)	10584-98-2	≥ 50

*Trade Secret - The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : Remove and wash contaminated clothing before re-use.
If inhaled : Move to fresh air.
In case of skin contact : Wash off with soap and plenty of water.
Take off contaminated clothing and shoes immediately.
In case of eye contact : Rinse with plenty of water.
If swallowed : Clean mouth with water and drink afterwards plenty of water.
Call a physician immediately.
Show this safety data sheet to the doctor in attendance.
Most important symptoms and effects, both acute and delayed : No information available.
Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical
Sand
Unsuitable extinguishing media : High volume water jet
Specific hazards during fire-fighting : Smoke and fumes, toxic.
Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.
Ensure adequate ventilation.
Avoid contact with skin and eyes.
Use personal protective equipment.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Take precautionary measures against static discharges.
Keep away from sources of ignition - No smoking.
Provide sufficient air exchange and/or exhaust in work rooms.
- Conditions for safe storage : Store at room temperature in the original container.
Keep container tightly closed in a dry and well-ventilated place.
- Technical measures/Precautions : Handle in accordance with good industrial hygiene and safety practice.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Organic tin compounds	Not Assigned	air 8 h	0.1 mg/m ³ (Tin)	ACGIH
		air 15 min	0.2 mg/m ³ (Tin)	ACGIH
		PEL	0.1 mg/m ³ (Tin)	OSHA Z-1

- Engineering measures** : Local exhaust
- Personal protective equipment**
- Respiratory protection : In case of inadequate ventilation wear respiratory protection.
Protective mask with A2 Filter.
- Hand protection
 - Material : protective gloves acc. to EN 374, e.g. neoprene
 - Glove thickness : >= 0.7 mm
- Eye protection : Safety glasses
- Skin and body protection : Long sleeved clothing
Rubber apron
- Protective measures : antistatic shoes



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Hygiene measures : When using do not eat or drink.
Do not smoke.
Wash hands before breaks and at the end of workday.
Shower or bathe at the end of working.
Keep working clothes separately.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Color : light yellow
Odor : characteristic
Odor Threshold : No data available

pH : No data available
Melting point/range : No data available

Boiling point/boiling range : > 300 °C

Flash point : > 100 °C
Evaporation rate : No data available

Flammability (liquids) : Combustible Liquid

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : > 1 g/cm³

Solubility(ies)
 Water solubility : slightly soluble

Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity
 Viscosity, dynamic : No data available

 Viscosity, kinematic : No data available

Refractive index : No data available



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SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	No decomposition if stored normally.
Possibility of hazardous reactions	:	Contact with mineral acids can release hydrogen sulphide.
Conditions to avoid	:	Keep away from heat and sources of ignition.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	:	Acute toxicity estimate: 454.31 mg/kg Method: Calculation method
		Acute toxicity estimate: 454.31 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 1.18 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
		Acute toxicity estimate: 1.18 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: 971.25 mg/kg Method: Calculation method
		Acute toxicity estimate: 971.25 mg/kg Method: Calculation method

Components:

Monobutyltin-tris(2-ethylhexylthioglycolate):

Acute oral toxicity	:	LD50 (Mouse, male and female): 1,520 mg/kg
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Dibutyltin bis(ethylhexylthioglycolate):

Acute oral toxicity	:	LD50 (Rat): 396 mg/kg Method: OECD Test Guideline 401 GLP: no Assessment: Harmful if swallowed.
Acute inhalation toxicity	:	LC50 (Rat): 0.941 mg/l Exposure time: 4 h Test atmosphere: dust/mist



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Method: OECD Test Guideline 403
Assessment: Toxic if inhaled.

Acute dermal toxicity : LD50 (Rat): 777 mg/kg
Method: OECD Test Guideline 402

LD50 (Rat): > 1,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: Toxic in contact with skin.

Skin corrosion/irritation

Components:

Dibutyltin bis(ethylhexylthioglycolate):

Species: Skin corrosion: Human Skin Model Test
Exposure time: 0.25 h
Method: EPISKIN Human Skin Model Test
Result: not irritating
GLP: yes

Species: Skin corrosion: Human Skin Model Test
Exposure time: 1 - 4 h
Method: OECD Test Guideline 431
Result: No corrosion
GLP: yes

Species: Rat
Exposure time: 24 h
Method: OECD Test Guideline 402
Result: Causes skin irritation.
GLP: yes

Serious eye damage/eye irritation

Components:

Dibutyltin bis(ethylhexylthioglycolate):

Species: Rabbit
Result: Causes serious eye irritation.
Method: OECD Test Guideline 405
GLP: no

Respiratory or skin sensitisation

Components:

Dibutyltin bis(ethylhexylthioglycolate):

Remarks: Skin sensitisation

Test Type: Maximisation Test
Species: Guinea pig



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Method: OECD Test Guideline 406
Result: Sensitising
GLP: yes

Remarks: Respiratory sensitisation
Not classified due to lack of data.

Germ cell mutagenicity

Components:

Dibutyltin bis(ethylhexylthioglycolate):

- Genotoxicity in vitro
- : Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Species: Bacteria
Method: OECD Test Guideline 471
Result: negative
 - : Remarks: Read-across (Analogy)
 - : Test Type: In vitro gene mutation study in mammalian cells
Species: V79
Method: OECD Test Guideline 476
Result: negative
GLP: yes
 - : Remarks: Read-across (Analogy)
 - : Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
Species: Human lymphocytes
Method: OECD Test Guideline 473
Result: positive
GLP: yes
- Genotoxicity in vivo
- : Remarks: Read-across (Analogy)
 - : Test Type: In vivo micronucleus test
Species: Mouse
Application Route: Oral
Method: OECD Test Guideline 474
Result: positive
GLP: yes
Remarks: Suspected of causing genetic defects.

Carcinogenicity

Product:

Remarks: This product contains no known or suspected carcinogens listed by IARC, NTP or OSHA at or above reportable quantities.



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Components:

Dibutyltin bis(ethylhexylthioglycolate):

Remarks: Not classified due to lack of data.

Reproductive toxicity

Components:

Dibutyltin bis(ethylhexylthioglycolate):

Effects on fertility :

Remarks: Read-across (Analogy)

Test Type: Screening for reproductive/developmental toxicity
Species: Rat
Application Route: Oral

Method: OECD Test Guideline 421
GLP: yes

Effects on foetal development :

Remarks: Read-across (Analogy)
Species: Rat
Application Route: Oral
Method: OECD Test Guideline 414
GLP: yes
Remarks: May damage the unborn child.

STOT - single exposure

Components:

Dibutyltin bis(ethylhexylthioglycolate):

Exposure routes: Inhalation, Ingestion, Skin contact
Target Organs: thymus
Assessment: Causes damage to organs.

Repeated dose toxicity

Components:

Dibutyltin bis(ethylhexylthioglycolate):

Species: Rat
Application Route: Oral
Method: standardised international/national methodology
Target Organs: Causes damage to organs through prolonged or repeated exposure., thymus

Aspiration toxicity

Components:

Dibutyltin bis(ethylhexylthioglycolate):



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Not classified due to lack of data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Monobutyltin-tris(2-ethylhexylthioglycolate):

Ecotoxicology Assessment

Chronic aquatic toxicity : Read-across (Analogy)

May cause long lasting harmful effects to aquatic life.

Dibutyltin bis(ethylhexylthioglycolate):

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 11.4 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.4 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): 0.646 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 10 %
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes
Remarks: Value referred to the Water accumulated fraction (WAF).

Toxicity to bacteria : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
GLP: yes

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.



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Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

Monobutyltin-tris(2-ethylhexylthioglycolate):

Biodegradability : Remarks: No data available

Dibutyltin bis(ethylhexylthioglycolate):

Biodegradability : aerobic
Inoculum: activated sludge
Result: Inherently biodegradable.
Exposure time: 76 d
Method: OECD Test Guideline 301
GLP: yes

Bioaccumulative potential

Components:

Monobutyltin-tris(2-ethylhexylthioglycolate):

Bioaccumulation : Remarks: No data available

Dibutyltin bis(ethylhexylthioglycolate):

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil

Components:

Monobutyltin-tris(2-ethylhexylthioglycolate):

Mobility : Remarks: No data available

Dibutyltin bis(ethylhexylthioglycolate):

Mobility : Remarks: Predicted distribution to environmental compartments
Soil
Sediment

Other adverse effects

Components:

Monobutyltin-tris(2-ethylhexylthioglycolate):

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.
Endocrine disrupting potential : No information available.



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Dibutyltin bis(ethylhexylthioglycolate):

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.
Endocrine disrupting potential : No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Consult an expert on the disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Dispose in accordance with local, state and federal regulations.
Contaminated packaging : Empty containers must be handled with care due to product residue.

SECTION 14. TRANSPORT INFORMATION

National Regulations

DOT

Not regulated

International Regulations

IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (organotin compounds, solution)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (organotin compounds, solution)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.



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SECTION 15. REGULATORY INFORMATION

SARA 313 : This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Components	CAS-No.	Wt.
not applicable	Not Assigned	

The components of this product are reported in the following inventories:

EINECS	listed
TSCA	listed
DSL	listed
AICS	listed
ENCS	listed
ECL	listed
PICCS	listed
CHINA	listed

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level;



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NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

HMIS III:

HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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The information provided in this 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.

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