



BAEROSTAB MTS 1200 - US

Version 1.1

Revision Date 04/15/2021

SECTION 1. IDENTIFICATION

Product identifier

Trade name : **BAEROSTAB MTS 1200 - US**

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 (Dermal) : Category 4

Skin sensitisation : Category 1

Germ cell mutagenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ toxicity
- repeated exposure : Category 1

Specific target organ toxicity
- single exposure : Category 3 (Respiratory system)

GHS label elements

Hazard pictograms :





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- Signal word : Danger
- Hazard statements : H302 + H312 Harmful if swallowed or in contact with skin.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs 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.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
- Storage:**
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
- 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 : Mixture



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Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester)	57583-35-4	>= 20*
Monomethyltintris-(thioglycolacidisooctylester)	57583-34-3	>= 20*

*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 : 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.
Ensure adequate ventilation.
Avoid contact with skin.
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).



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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
		TWA	0.1 mg/m ³ (Tin)	NIOSH REL

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

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 : yellowish



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Odor	:	characteristic
Odor Threshold	:	No data available
pH	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	ca. 220 °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	:	1.17 g/cm ³ (25 °C)
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

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	No decomposition if stored normally.
Possibility of hazardous reactions	:	Vapours may form explosive mixture with air. 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.



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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: 1,069 mg/kg
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 1,038 mg/kg
Method: Calculation method

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Acute oral toxicity : LD50 (Rat): 1,150 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 (Rabbit): > 1,050 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Monomethyltintris-(thioglycolacidisoctylester):

Acute oral toxicity : LD50 (Rat): 880 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : LC50 (Rat): 240 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist
GLP: no
Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 (Rabbit, male): 2,150 mg/kg
Method: standardised international/national methodology

LD50 (Rabbit, female): 1,000 mg/kg
Method: standardised international/national methodology

Skin corrosion/irritation

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404



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GLP: yes

Remarks: Based on available data, the classification criteria are not met.

Monomethyltintris-(thioglycolacidisooctylester):

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: not irritating

GLP: yes

Remarks: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Species: Rabbit

Result: not irritating

Method: OECD Test Guideline 405

GLP: yes

Remarks: Based on available data, the classification criteria are not met.

Monomethyltintris-(thioglycolacidisooctylester):

Species: Rabbit

Method: OECD Test Guideline 405

GLP: yes

Remarks: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Remarks: Skin sensitisation

Test Type: Maximisation Test

Species: Guinea pig

Method: standardised international/national methodology

Result: Sensitising

GLP: no

Remarks: Respiratory sensitisation

Based on available data, the classification criteria are not met.

Monomethyltintris-(thioglycolacidisooctylester):

Remarks: Skin sensitisation

Test Type: LLNA

Species: Mouse

Method: OECD Test Guideline 429

Result: Sensitising



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GLP: yes

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

Germ cell mutagenicity

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Genotoxicity in vitro : Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Species: Bacteria
Method: standardised international/national methodology
Result: negative
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Genotoxicity in vivo : Remarks: Read-across (Analogy)

Test Type: in vivo assay
Species: Rat (male)
Application Route: Oral
Method: standardised international/national methodology
Result: negative
GLP: yes

Remarks: Read-across (Analogy)

Test Type: In vivo micronucleus test
Species: Mouse
Application Route: Oral
Method: standardised international/national methodology
Result: negative
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Monomethyltintris-(thioglycolacidisoctylester):

Genotoxicity in vitro : Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Species: Bacteria
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Genotoxicity in vivo : Remarks: Read-across (Analogy)

Test Type: In vivo micronucleus test
Species: Rat (male)
Application Route: Oral
Method: OECD Test Guideline 474



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Result: positive
GLP: yes

Carcinogenicity

Product:

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

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Remarks: Based on available data, the classification criteria are not met.

Monomethyltintris-(thioglycolacidisoctylester):

Remarks: Based on available data, the classification criteria are not met.

Reproductive toxicity

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Effects on foetal development : Remarks: Read-across (Analogy)
Species: Rat
Application Route: Oral
Method: standardised international/national methodology
Remarks: Read-across (Analogy)
Species: Rat
Application Route: Oral
Method: OECD Test Guideline 414
Remarks: Classification
Remarks: Labelling according to EC Directives
Remarks: Suspected of damaging the unborn child.

Monomethyltintris-(thioglycolacidisoctylester):

Effects on fertility :
Remarks: Read-across (Analogy)
Test Type: Screening for reproductive/developmental toxicity
Species: Rat
Sex: female
Application Route: Oral
Method: OECD Test Guideline 421
GLP: yes
Effects on foetal development : Remarks: Read-across (Analogy)
Species: Rat
Application Route: Oral



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Method: standardised international/national methodology
Remarks: Classification
Remarks: Labelling according to EC Directives
Remarks: Suspected of damaging the unborn child.

STOT - single exposure

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Remarks: Based on available data, the classification criteria are not met.

Monomethyltintris-(thioglycolacidisoctylester):

Assessment: May cause respiratory irritation.

STOT - repeated exposure

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Remarks: Classification
Labelling according to EC Directives
Regulation (EC) No 1272/2008, Annex VI, Table 3.1
Category 2

Monomethyltintris-(thioglycolacidisoctylester):

Remarks: Classification
Labelling according to EC Directives
Regulation (EC) No 1272/2008, Annex VI, Table 3.1
Category 2

Repeated dose toxicity

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Species: Rat
Application Route: Oral
Method: OECD Test Guideline 408
GLP: yes

Target Organs: May cause damage to organs through prolonged or repeated exposure., Nervous system

Monomethyltintris-(thioglycolacidisoctylester):

Remarks: Read-across (Analogy)

Species: Rat
Application Route: Oral
Method: OECD Test Guideline 408



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GLP: yes

Target Organs: May cause damage to organs through prolonged or repeated exposure., thymus, Nervous system

Aspiration toxicity

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Based on available data, the classification criteria are not met.

Monomethyltintris-(thioglycolacidisooctylester):

Not classified due to lack of data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1,000 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 (water flea)): 32 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 270 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 (water flea)): 0.457 mg/l
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

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



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Method: OECD Test Guideline 209
GLP: yes

Monomethyltintris-(thioglycolacidisooctylester):

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 6.0 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 1.8 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)): 0.134 mg/l
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

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

Persistence and degradability

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Biodegradability : aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes
Remarks: The 10 day time window criterion is not fulfilled.

Monomethyltintris-(thioglycolacidisooctylester):

Biodegradability : aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes



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Bioaccumulative potential

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Bioaccumulation : Bioconcentration factor (BCF): < 0.83
Method: QSAR
GLP: no
Remarks: Bioaccumulation is unlikely.

Monomethyltintris-(thioglycolacidisoctylester):

Bioaccumulation : Bioconcentration factor (BCF): < 0.86
Method: QSAR
GLP: no
Remarks: Bioaccumulation is unlikely.

Mobility in soil

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

Mobility : Method: QSAR
Remarks: Predicted distribution to environmental compartments
Soil
Water

Monomethyltintris-(thioglycolacidisoctylester):

Mobility : Method: QSAR
Remarks: Predicted distribution to environmental compartments
Soil
Sediment
Water

Other adverse effects

Components:

Dimethyltinbis-(thioglycolacid-2-ethyl-1-hexylester):

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

Monomethyltintris-(thioglycolacidisoctylester):

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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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 as a dangerous good

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
CHINA	listed
ECL	listed
PICCS	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; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Develop-



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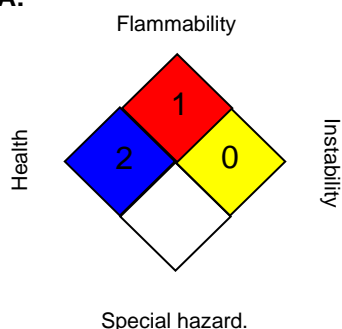
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ment; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - 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

NFPA:



HMIS III:

HEALTH	2*
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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