SECTION 1. IDENTIFICATION

Product identifier

Trade name : **EXREIN EZ 1**

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

Use of the Substance/Mixture : Cleaning agent

Recommended restrictions on use : None known.

Manufacturer or supplier's details

Company name of supplier : Baerlocher Production USA LLC
513-604-2327

Address : 5890 Highland Ridge Drive
Cincinnati OH 45232

Emergency telephone number : CHEMTREC: 1-800-424-9300 (inside U.S.) / 1-703 527-3887 (outside U.S.) Collect calls are accepted

E-mail address : Hotline.PS@baerlocher.com

Responsible/issuing person : Product Safety Department

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Reproductive toxicity : Category 1B

Combustible dust : May form combustible dust concentrations in air.

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H360D May damage the unborn child.

Precautionary statements :

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

Storage:

P405 Store locked up.

Disposal:

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

Other hazards

Dust can form an explosive mixture in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Monooctyltin tris(2-ethylhexylthioglycolate)	27107-89-7	< 5*
Dioctyltin bis(2-ethylhexylthioglycolate)	15571-58-1	< 1*

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

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.

In case of skin contact : Wash off with soap and plenty of water.

In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Call a physician immediately.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
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.
Further information	:	Hydrogen chloride may be released.
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. Avoid dust formation. Provide adequate ventilation. Avoid contact with skin and eyes. For personal protection see section 8.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
Methods and materials for containment and cleaning up	:	Use mechanical handling equipment. 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. Avoid formation and buildup of dust.
Conditions for safe storage	:	Store at room temperature in the original container. Keep in a dry place.

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/m3 (Tin)	ACGIH

		air 15 min	0.2 mg/m3 (Tin)	ACGIH
		PEL	0.1 mg/m3 (Tin)	OSHA Z-1
Dust	Not Assigned	TWA (total dust)	50 Million parti- cles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWA (respir- able fraction)	5 mg/m3	OSHA Z-3
		TWA (respir- able fraction)	15 Million parti- cles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m3	OSHA Z-1
		TWA (Total)	15 mg/m3	OSHA P0
		TWA (Res- pirable frac- tion)	5 mg/m3	OSHA P0
		TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH

Engineering measures : Local exhaust

Personal protective equipment

Respiratory protection : P1 filter respirator for inert particles

Hand protection
Directive : Protective gloves complying with EN 374.

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing

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.
Handle in accordance with good industrial hygiene and safety practice.
Regular cleaning of equipment, work area and clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	off-white
Odor	:	slight
Odor Threshold	:	No data available
pH	:	No data available
Softening point	:	> 75 °C
Boiling point/boiling range	:	No data available
Flash point	:	>> 100 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Combustible Solids
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	:	No data available
Bulk density	:	No data available
Solubility(ies)		
Water solubility	:	practically insoluble
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

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	No decomposition if stored normally.
Possibility of hazardous reactions	:	Risk of dust explosion. Contact with mineral acids can release hydrogen sulphide.
Conditions to avoid	:	Avoid dust formation. 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: 2,765 mg/kg Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

Components:

Monooctyltin tris(2-ethylhexylthioglycolate):

Acute oral toxicity	:	LD50 (Rat): 2,177 mg/kg Method: OECD Test Guideline 401 GLP: no Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Remarks: Not classified due to lack of data. study scientifically unjustified
Acute dermal toxicity	:	LD50 (Rat): > 2000 Method: OECD Test Guideline 402 GLP: yes Remarks: Based on available data, the classification criteria are not met.

Dioctyltin bis(2-ethylhexylthioglycolate):

Acute oral toxicity	:	LD50 (Rat): 2,000 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute inhalation toxicity	:	Remarks: Not classified due to lack of data.

Acute dermal toxicity : LD50 (Rat): > 2000
Method: OECD Test Guideline 402
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Components:

Monooctyltin tris(2-ethylhexylthioglycolate):

Species: Rabbit
Method: OECD Test Guideline 404
Result: Skin irritation
GLP: yes

Remarks: REGULATION (EC) No 1272/2008
Based on available data, the classification criteria are not met.

Dioctyltin bis(2-ethylhexylthioglycolate):

Species: Rabbit
Method: OECD Test Guideline 404
Result: slight irritation
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Components:

Monooctyltin tris(2-ethylhexylthioglycolate):

Species: Rabbit
Result: not irritating
Method: OECD Test Guideline 405
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Dioctyltin bis(2-ethylhexylthioglycolate):

Species: Rabbit
Result: not irritating
Method: OECD Test Guideline 405
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Components:

Monooctyltin tris(2-ethylhexylthioglycolate):

Remarks: Skin sensitisation

Test Type: Maximisation Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Weak sensitizer
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

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

Dioctyltin bis(2-ethylhexylthioglycolate):

Remarks: Skin sensitisation

Test Type: LLNA
Species: Mouse
Method: OECD Test Guideline 442B
Result: negative
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

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

Germ cell mutagenicity

Components:

Monooctyltin tris(2-ethylhexylthioglycolate):

Genotoxicity in vitro	:	Remarks: Read-across (Analogy)
	:	Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Species: Bacteria Method: OECD Test Guideline 471 Result: negative
	:	Test Type: In vitro gene mutation study in mammalian cells Species: mouse lymphoma cells Method: OECD Test Guideline 476 Result: positive GLP: yes
	:	Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Species: Human lymphocytes Method: OECD Test Guideline 473 Result: negative GLP: yes Remarks: Based on available data, the classification criteria are not met.
Genotoxicity in vivo	:	Test Type: In vivo micronucleus test Species: Rat

Application Route: Oral
Exposure time: 2d
Method: OECD Test Guideline 474
Result: negative
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Dioctyltin bis(2-ethylhexylthioglycolate):

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

: Test Type: In vitro gene mutation study in mammalian cells
Species: mouse lymphoma cells
Method: OECD Test Guideline 476
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 micronucleus test
Species: Mouse
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

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

Components:

Monooctyltin tris(2-ethylhexylthioglycolate):

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

Dioctyltin bis(2-ethylhexylthioglycolate):

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

Reproductive toxicity

Components:

Monooctyltin tris(2-ethylhexylthioglycolate):

Effects on fertility : Test Type: Screening for reproductive/developmental toxicity
Species: Rat
Application Route: Oral
General Toxicity - Parent: NOAEL: 1,250 mg/kg food
General Toxicity F1: NOAEL: 1,250 mg/kg food
Method: OECD Test Guideline 421
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

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

Method: OECD Test Guideline 421
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Effects on foetal development : Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 36 mg/kg body weight
Embryo-foetal toxicity: NOAEL: 208 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Dioctyltin bis(2-ethylhexylthioglycolate):

Effects on fertility : Remarks: Read-across (Analogy)

Test Type: Two-generation study
Species: Rat
Application Route: Oral
General Toxicity - Parent: NOAEL: 20 mg/kg food
General Toxicity F1: NOAEL: 20 mg/kg food
Method: OECD Test Guideline 416
GLP: yes

Test Type: Screening for reproductive/developmental toxicity
Species: Rat
Application Route: Oral
General Toxicity - Parent: LOAEL: 0.5 mg/kg body weight
General Toxicity F1: NOAEL: 0.5 mg/kg body weight
Method: OECD Test Guideline 421
GLP: yes

Remarks: Read-across (Analogy)

Test Type: Two-generation study
Species: Rat
Application Route: Oral

Method: OECD Test Guideline 416
GLP: yes
Remarks: May damage the unborn child.

Effects on foetal development : Species: Rabbit
Application Route: Oral
General Toxicity Maternal: NOAEL: 20 mg/kg body weight
Embryo-foetal toxicity: NOAEL: 80 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Species: Mouse
Application Route: Oral
General Toxicity Maternal: NOAEL: 15 mg/kg body weight
Embryo-foetal toxicity: NOAEL: 60 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes
Species: Rabbit
Application Route: Oral
80 mg/kg
Method: OECD Test Guideline 414
GLP: yes
Species: Mouse
Application Route: Oral
60 mg/kg
Method: OECD Test Guideline 414
GLP: yes

Reproductive toxicity - Assessment : Clear evidence of adverse effects on development, based on animal experiments.
May damage the unborn child.

STOT - single exposure

Components:

Monooctyltin tris(2-ethylhexylthioglycolate):
Remarks: Based on available data, the classification criteria are not met.

Dioctyltin bis(2-ethylhexylthioglycolate):
Remarks: Based on available data, the classification criteria are not met.

STOT - repeated exposure

Components:

Dioctyltin bis(2-ethylhexylthioglycolate):
Target Organs: Immune system

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

Repeated dose toxicity

Components:

Monooctyltin tris(2-ethylhexylthioglycolate):

Species: Rat
NOAEL: 82 mg/kg
Application Route: Oral
Exposure time: 90 d
Method: standardised international/national methodology
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Dioctyltin bis(2-ethylhexylthioglycolate):

Species: Rat
NOAEL: 0.5 mg/kg
Application Route: Oral
Exposure time: 90 d
Method: OECD Test Guideline 408
Target Organs: Causes damage to organs through prolonged or repeated exposure., thymus

Aspiration toxicity

Components:

Monooctyltin tris(2-ethylhexylthioglycolate):

Not classified due to lack of data.

Dioctyltin bis(2-ethylhexylthioglycolate):

Not classified due to lack of data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Monooctyltin tris(2-ethylhexylthioglycolate):

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 % WSF
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes
Remarks: Value refered to the Water soluble fraction (WSF).
No detectable toxicity.

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 18 - 32 % WSF Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes Remarks: Value refered to the Water soluble fraction (WSF).
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 % WSF Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes Remarks: Value refered to the Water soluble fraction (WSF).
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to fish (Chronic toxicity)	:	Remarks: study scientifically unjustified
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.036 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211 GLP: yes
M-Factor (Chronic aquatic toxicity)	:	10
Toxicity to bacteria	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h Test Type: static test Method: standardised international/national methodology GLP: yes

Ecotoxicology Assessment

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

Dioctyltin bis(2-ethylhexylthioglycolate):

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 24.8 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes Remarks: saturated aqueous solution Value refered to the Water accumulated fraction (WAF). NOEC (Danio rerio (zebra fish)): > 24.8 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes

Remarks: saturated aqueous solution
Value refered to the Water accumulated fraction (WAF).

Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): > 0.11 mg/l
Exposure time: 24 h
Test Type: static test
Method: OECD Test Guideline 202
Remarks: saturated aqueous solution
Value refered to the Water accumulated fraction (WAF).

Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): 0.12 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: saturated aqueous solution
Value refered to the Water accumulated fraction (WAF).

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1.448 mg/l
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

Toxicity to bacteria : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
Test Type: static test
Method: standardised international/national methodology
GLP: yes

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

Persistence and degradability

Components:

Monooctyltin tris(2-ethylhexylthioglycolate):

Biodegradability : aerobic
Inoculum: activated sludge
Result: Not biodegradable
Biodegradation: < 60 %
Exposure time: 39 d
Method: OECD Test Guideline 301F
GLP: yes

Dioctyltin bis(2-ethylhexylthioglycolate):

Biodegradability : aerobic
Inoculum: activated sludge
Result: Not biodegradable

Biodegradation: < 40 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

Bioaccumulative potential

Components:

Monooctyltin tris(2-ethylhexylthioglycolate):

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): 1,294
Exposure time: 30 d
Method: OECD Test Guideline 305
GLP: yes

Dioctyltin bis(2-ethylhexylthioglycolate):

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): 99 - 1,294
Exposure time: 30 d
Method: OECD Test Guideline 305
GLP: yes
Remarks: Bioaccumulation is unlikely.

Mobility in soil

Components:

Monooctyltin tris(2-ethylhexylthioglycolate):

Mobility : Remarks: No data available

Dioctyltin bis(2-ethylhexylthioglycolate):

Mobility : Remarks: No data available

Other adverse effects

Components:

Monooctyltin 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.

Dioctyltin bis(2-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 as a dangerous good

International Regulations

IATA-DGR

UN/ID No.	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Monooctyltin tris(2-ethylhexylthioglycolate), mixture)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passenger aircraft)	:	956

IMDG-Code

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Monooctyltin tris(2-ethylhexylthioglycolate), mixture)
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.

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:

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

SECTION 16. OTHER INFORMATION

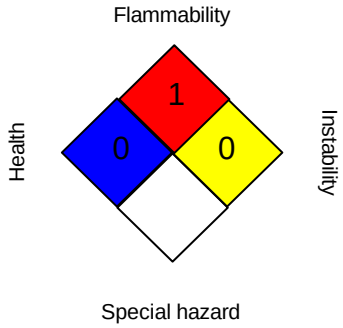
Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; 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 Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu-

lative 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; TECI - Thailand Existing Chemicals 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	**1***
FLAMMABILITY	**1**
PHYSICAL HAZARD	**0**

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

Revision Date : 07/14/2022

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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