BAEROSTAB MC 93678-1 CP





SECTION 1. IDENTIFICATION

Product identifier

Trade name : BAEROSTAB MC 93678-1 CP

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

Use of the Sub- : Manufacture of plastics products

stance/Mixture Polymer additive

Stabilizer

Recommended restrictions

on use

: None known.

Manufacturer or supplier's details

Company : Baerlocher Production USA LLC

5890 Highland Ridge Drive

Cincinnati, OH 45232

Telephone : 513-604-2327

E-mail address : Hotline.PS@baerlocher.com Responsible/issuing person : Product Safety Department

Emergency telephone number (0 - 24 h)

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

accepted

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin sensitization : Category 1

Combustible dust : May form explosive dust-air mixture.

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

May form combustible dust concentrations in air.

Precautionary statements : Prevention:

P261 Avoid breathing dust.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves.

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Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

Dust can form an explosive mixture in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Chemical nature Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Zinc Compounds*	Trade Secret	< 25*
1,3-Propanedione, 1,3-diphenyl-	120-46-7	< 10*

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 Rinse with plenty of water.

If swallowed Clean mouth with water and drink afterwards plenty of water.

Get medical advice/ attention if you feel unwell.

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

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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, protec- :

tive equipment and emergency procedures

Remove all sources of ignition.

Avoid dust formation.

Provide adequate ventilation.

Avoid contact with skin.

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
Zinc Compounds	Trade Secret	TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0

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		TWA (respirable dust	5 mg/m3	OSHA P0
		fraction) TWA (Inhalable particulate matter)	10 mg/m3	ACGIH
		TWA (Respirable particulate matter)	3 mg/m3	ACGIH
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
particulates	Not Assigned	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable 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 (Respirable particulate matter)	3 mg/m3	ACGIH

Engineering measures : Local exhaust

Personal protective equipment

Respiratory protection : P1 filter respirator for inert particles

Hand protection

Directive : protective gloves acc. to EN 374, e.g. neoprene

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.

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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 : solid

Color : white

Odor : slight

Odor Threshold : No data available

pH : No data available

Melting point/range : > 100 °C

Boiling point/boiling range : No data available

Flash point : >> 100 °C

Evaporation rate : No data available

Flammability (solid, gas) : The product is not flammable.

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

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SAFETY DATA SHEET

according to 29 CFR § 1910.1200

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Viscosity, kinematic : No data available

Particle size : 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 reac-

tions

: Applies to granules (R), pastilles (TX) and flakes (SMS):

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

Applies to powder and remaining product forms:

Dust can form an explosive mixture in air.

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

Information on likely routes of exposure

Inhalation Skin contact Ingestion

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: 2,941 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 6.61 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 3,521 mg/kg

Method: Calculation method

Components:

Zinc Compounds:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

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Remarks: Read-across (Analogy)

LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 423

Remarks: Based on available data, the classification criteria

are not met.

Acute inhalation toxicity : LC50 (Rat): > 200 mg/l

Exposure time: 1 h

Test atmosphere: dust/mist

LC50 (Rat): > 50 mg/l Exposure time: 4 h Test atmosphere: dust/mist

Remarks: Based on available data, the classification criteria

are not met.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Remarks: Based on available data, the classification criteria

are not met.

1,3-diphenylpropane-1,3-dione:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 423

GLP: yes

Assessment: The substance or mixture has no acute oral tox-

icity

Acute inhalation toxicity : Remarks: study scientifically unjustified

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Components:

Zinc Compounds:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

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

1,3-diphenylpropane-1,3-dione:

Species: reconstructed human epidermis (RhE)

Method: OECD Test Guideline 439

Result: No skin irritation

GLP: yes

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

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Serious eye damage/eye irritation

Components:

Zinc Compounds:

Species: Rabbit Result: not irritating

Method: OECD Test Guideline 405

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

1,3-diphenylpropane-1,3-dione:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

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

Respiratory or skin sensitisation

Components:

Zinc Compounds:

Remarks: Skin sensitisation

Patch test on human volunteers did not demonstrate sensitisation properties.

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

Remarks: Respiratory sensitisation

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

1,3-diphenylpropane-1,3-dione:

Remarks: Skin sensitisation

Test Type: Local lymph node assay (LLNA)

Species: Mouse

Method: OECD Test Guideline 429

Result: May cause sensitisation by skin contact.

GLP: yes

Remarks: Respiratory sensitisation

Remarks: Not classified due to lack of data.

Germ cell mutagenicity

Components:

Zinc Compounds:

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

: Method: standardised international/national methodology

Result: negative

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Remarks: Based on available data, the classification criteria

are not met.

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

Method: standardised international/national methodology

Result: negative

Remarks: Based on available data, the classification criteria

are not met.

1,3-diphenylpropane-1,3-dione:

Genotoxicity in vitro : Test Type: Mutagenicity (Salmonella typhimurium - reverse

mutation assay) Species: Bacteria

Method: OECD Test Guideline 471

Result: negative GLP: yes

: 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: CHL

Method: OECD Test Guideline 487

Result: positive GLP: yes

Genotoxicity in vivo : Test Type: comet assay

Species: Rat

Application Route: Oral

Method: OECD Test Guideline 489

Result: negative GLP: yes

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:

Zinc Compounds:

Remarks: Read-across (Analogy)

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

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1,3-diphenylpropane-1,3-dione:

Remarks: Not classified due to lack of data.

Reproductive toxicity

Components:

Zinc Compounds:

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

Remarks: Based on available data, the classification criteria

are not met.

Remarks: Read-across (Analogy)

Remarks: Based on available data, the classification criteria

are not met.

Effects on foetal develop-

ment

Remarks: Read-across (Analogy)

Remarks: Based on available data, the classification criteria

are not met.

Remarks: Read-across (Analogy)

Remarks: Based on available data, the classification criteria

are not met.

1,3-diphenylpropane-1,3-dione:

Effects on fertility : Remarks: Not classified due to lack of data.

Effects on foetal develop-

ment

Remarks: Not classified due to lack of data.

STOT - single exposure

Components:

Zinc Compounds:

Remarks: Read-across (Analogy)

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

1,3-diphenylpropane-1,3-dione:

Remarks: Not classified due to lack of data.

STOT - repeated exposure

Components:

1,3-diphenylpropane-1,3-dione:

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Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Zinc Compounds:

Remarks: Read-across (Analogy)

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

1,3-diphenylpropane-1,3-dione:

Species: Rat

NOAEL: 62.5 mg/kg Application Route: Oral Exposure time: 90 d

Method: OECD Test Guideline 408

GLP: yes

Aspiration toxicity

Components:

Zinc Compounds:

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

1,3-diphenylpropane-1,3-dione:

Not classified due to lack of data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Zinc Compounds:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10,000 mg/l

Exposure time: 96 h
Test Type: semi-static test

Method: Directive 67/548/EEC, Annex V, C.1.

Remarks: Read-across (Analogy)

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,169 mg Zn/L

Exposure time: 96 h Test Type: static test

Method: standardised international/national methodology

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Remarks: Read-across (Analogy)

(Pimephales promelas (fathead minnow)): 0,330 - 0,780 mg

Zn/L

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Remarks: Read-across (Analogy)

LC50 (Ceriodaphnia dubia (water flea)): 0.147 - > 0.53 mg

Zn/l

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 19.3

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/

Exposure time: 72 h Test Type: semi-static test

Method: OECD Test Guideline 201

GLP: yes

Remarks: Value refered to the Water accumulated fraction

(WAF).

EC10 (Pseudokirchneriella subcapitata (green algae)): 3.31

mg/l

Exposure time: 72 h
Test Type: semi-static test

Method: OECD Test Guideline 201

GLP: yes

Remarks: Value refered to the Water accumulated fraction

(WAF).

Toxicity to fish (Chronic tox-

icity)

Remarks: Read-across (Analogy)

NOEC: 0,044 - 0,530 mg Zn/L Test Type: Fresh water

Remarks: Read-across (Analogy)

NOEC: 0,025 mg Zn/L Test Type: Marine water

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

Remarks: Read-across (Analogy)

NOEC: 0,037 - 0,400 mg Zn/L Test Type: Fresh water

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Remarks: Read-across (Analogy)

NOEC: 0,0056 - 0,9 mg Zn/L Test Type: Marine water

Toxicity to bacteria : NOEC (Photobacterium phosphoreum): 1,560 mg/l

Exposure time: 0.5 h Test Type: static test Method: DIN 38412 T 34

GLP:

GLP:

Remarks: Read-across (Analogy)

EC50 (activated sludge): 5,2 mg Zn/l

Exposure time: 3 h Test Type: static test

Method: OECD Test Guideline 209

GLP: no

1,3-diphenylpropane-1,3-dione:

Toxicity to fish : LC50: 11.313 mg/l

Exposure time: 96 h Method: QSAR

Toxicity to daphnia and other :

aquatic invertebrates

LC50: 7.519 mg/l Exposure time: 48 h

Method: QSAR

Toxicity to algae : EC50: 2.68 mg/l

Exposure time: 96 h Method: QSAR

Toxicity to fish (Chronic tox-

icity)

Chronic Toxicity Value: 0.552 mg/l

Exposure time: 30 d Method: QSAR

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

Chronic Toxicity Value: 0.309 mg/l

Exposure time: 21 d Method: QSAR

Toxicity to bacteria : Remarks: study scientifically unjustified

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

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Persistence and degradability

Components:

Zinc Compounds:

Biodegradability : Ready biodegradability

Result: Readily biodegradable.

Biodegradation: 93 % Exposure time: 28 d

Method: closed bottle test according to OECD 301 D

Remarks: Read-across (Analogy)

Ready biodegradability

Result: Readily biodegradable.

Biodegradation: 72 % Exposure time: 29 d

Method: OECD Test Guideline 301

1,3-diphenylpropane-1,3-dione:

Biodegradability : aerobic

Inoculum: activated sludge Result: Readily biodegradable.

Biodegradation: 89 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

Bioaccumulative potential

Components:

Zinc Compounds:

Bioaccumulation : Remarks: Not applicable

1,3-diphenylpropane-1,3-dione:

Bioaccumulation : Remarks: study scientifically unjustified

Partition coefficient: n-

octanol/water Me

log Pow: 4.59 (25 °C) Method: OECD Test Guideline 117

GLP: no

Mobility in soil

Components:

Zinc Compounds:

Mobility : Remarks: According to experience not expected

1,3-diphenylpropane-1,3-dione:

Mobility : Remarks: No data available

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Other adverse effects

Product:

Results of PBT and vPvB

assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Components:

Zinc Compounds: Results of PBT and vPvB

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

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

assessment

Endocrine disrupting poten-

No information available.

1,3-diphenylpropane-1,3-dione:

Results of PBT and vPvB

assessment

No information available.

Endocrine disrupting poten-

tial

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues Consult an expert on the disposal of recovered material. En-

sure disposal in compliance with government requirements

and ensure conformity to local disposal regulations.

Dispose in accordance with local, state and federal regulations.

Empty containers must be handled with care due to product Contaminated packaging

residue.

SECTION 14. TRANSPORT INFORMATION

National Regulations

Not regulated as a dangerous good

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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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.
Zinc Compounds (N982)	Not Assigned	24.0

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

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 Admin-

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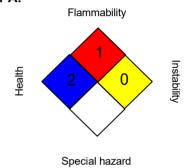
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istration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National 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, 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; 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	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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