SECTION 1. IDENTIFICATION

Product identifier

Trade name : **BZ 8785 - 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 : 513-604-2327

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

Responsible/issuing person : Product Safety Department

Emergency telephone number (0 - 24 h)

Chemtrec Tel.: 800-424-9300 (inside the US) or 703-527-3887 (outside the US) Collect calls will be accepted.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 4

Eye irritation : Category 2A

Skin sensitization : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ toxicity - repeated exposure : Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H227 Combustible liquid.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
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.
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.
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

Chemical nature : Mixture
Contains organic solvents.

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Isodecyl diphenyl phosphite	26544-23-0	>= 25*
Zinc Compounds*	Trade Secret	< 20*
Stoddard solvent	8052-41-3	< 10*
Triisodecyl phosphite	25448-25-3	< 10*
2-(2-Butoxyethoxy) ethanol	112-34-5	< 10*
Benzoic acid	65-85-0	< 3*

*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 immediately with plenty of water, also under the eyelids.
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.
Further information	:	Release of Phenol by hydrolysis.
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 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	:	Observe storage regulations and explosion protection for flammable liquids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Stoddard solvent	8052-41-3	air 8 h	100 ppm	ACGIH
		PEL	500 ppm 2,900 mg/m3	OSHA Z-1
		TWA	350 mg/m3	NIOSH REL
2-(2-Butoxyethoxy) ethanol	112-34-5	air 8 h	10 ppm	ACGIH

Engineering measures : Local exhaust

Personal protective equipment

Respiratory protection	:	Up to 0.5 mg/m3: (APF=10) Any air-purifying respirator with a high-efficiency particulate filter/(APF=10) Any air-supplied respirator
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. 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	:	liquid
Color	:	yellowish
Odor	:	characteristic
Odor Threshold	:	No data available
pH	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	158 - 204 °C Value refers to the solvent.
Flash point	:	70.6 °C
Evaporation rate	:	No data available
Flammability (liquids)	:	Combustible Liquid
Upper explosion limit	:	ca. 5.6 %(V) Value refers to the solvent.
Lower explosion limit	:	ca. 0.7 %(V) Value refers to the solvent.
Vapor pressure	:	1.61 hPa (20 °C) Value refers to the solvent.
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	0.8 - 1.0 g/cm3
Solubility(ies)		
Water solubility	:	slightly soluble
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	240 °C Value refers to the solvent.
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	:	Vapors may form explosive mixture with air.
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: 3,965 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 139.77 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

Components:

Isodecyl diphenyl phosphite:

Acute oral toxicity	:	LD50 (Rat): 3,840 mg/kg Method: standardized international/national methodology Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	LC50 (Rat): > 8.4 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Remarks: Based on available data, the classification criteria are not met.

Zinc Compounds:

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: standardized international/national methodology Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Remarks: Not classified due to lack of data.
Acute dermal toxicity	:	Remarks: Read-across (Analogy) LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on available data, the classification criteria are not met.

Stoddard solvent:

Acute oral toxicity	:	Remarks: Read-across (Analogy) LD50: > 15,000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Remarks: Read-across (Analogy) LC50 (Rat): > 13.1 mg/l Exposure time: 4 h Method: OECD Test Guideline 403 Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity	:	Remarks: Read-across (Analogy) LD50 (Rabbit): > 3,400 mg/kg Method: OECD Test Guideline 402 Remarks: Based on available data, the classification criteria are not met.

Triisodecyl phosphite:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 12.6 mg/l
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg

2-(2-Butoxyethoxy) ethanol:

Acute oral toxicity : LD50 (Mouse, male): 2,410 mg/kg
Method: OECD Test Guideline 401
GLP: no
Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC50 (Rat): > 3 mg/l
Exposure time: 2 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: no
Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 (Rabbit): 2,764 mg/kg
Method: OECD Test Guideline 402
GLP: no
Remarks: Based on available data, the classification criteria are not met.

Benzoic acid:

Acute oral toxicity : LD50 (Rat): ca. 2,565 mg/kg
Method: OECD Test Guideline 401
GLP: no

LD50 (Mouse): 2,250 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC50 (Rat): > 12.2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: no
Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
GLP: no
Remarks: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Components:

Isodecyl diphenyl phosphite:

Species: Rabbit
Method: standardized international/national methodology
Result: slight irritation
Remarks: Based on available data, the classification criteria are not met.

Zinc Compounds:

Remarks: Read-across (Analogy)

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

Stoddard solvent:

Remarks: Read-across (Analogy)

Method: OECD Test Guideline 404
Remarks: Prolonged skin contact may defat the skin and produce dermatitis.
Based on available data, the classification criteria are not met.

Triisodecyl phosphite:

Remarks: Causes skin irritation.

2-(2-Butoxyethoxy) ethanol:

Species: Rabbit
Exposure time: 1 h
Method: OECD Test Guideline 404
Result: slight irritation
GLP: no
Remarks: Based on available data, the classification criteria are not met.

Benzoic acid:

Species: Rabbit
Exposure time: 4 h
Method: Directive 67/548/EEC, Annex V, B.4.
Result: not irritating
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Components:

Isodecyl diphenyl phosphite:

Species: Rabbit
Result: slight irritation
Method: standardized international/national methodology
Remarks: Based on available data, the classification criteria are not met.

Zinc Compounds:

Remarks: Read-across (Analogy)

Species: Rabbit
Result: irritating
Method: OECD Test Guideline 405
GLP: yes

Stoddard solvent:

Remarks: Read-across (Analogy)

Result: slight irritation
Method: OECD Test Guideline 405
Remarks: Based on available data, the classification criteria are not met.

Triisodecyl phosphite:

Remarks: Causes serious eye irritation.

2-(2-Butoxyethoxy) ethanol:

Species: Rabbit
Result: highly irritant
Method: OECD Test Guideline 405
GLP: no

Benzoic acid:

Species: Rabbit
Result: Corrosive
Method: Directive 67/548/EEC, Annex V, B.5.
GLP: yes

Respiratory or skin sensitization

Components:

Isodecyl diphenyl phosphite:

Remarks: Skin sensitization

Test Type: Maximisation Test
Species: Guinea pig
Method: standardized international/national methodology

Result: Sensitising

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

Zinc Compounds:

Remarks: Skin sensitization

Remarks: Read-across (Analogy)
Based on available data, the classification criteria are not met.

Remarks: Respiratory sensitization

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

Stoddard solvent:

Remarks: Skin sensitization
Read-across (Analogy)

Method: OECD Test Guideline 406
Result: Does not cause skin sensitization.
Remarks: Based on available data, the classification criteria are not met.

Remarks: Respiratory sensitization

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

Triisodecyl phosphite:

Remarks: May cause an allergic skin reaction.

2-(2-Butoxyethoxy) ethanol:

Remarks: Skin sensitization

Test Type: Maximisation Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitization.
Remarks: Based on available data, the classification criteria are not met.

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

Benzoic acid:

Remarks: Skin sensitization

Test Type: LLNA
Species: Mouse
Method: standardized international/national methodology
Result: negative

Test Type: Buehler Test
Species: Guinea pig
Method: standardized international/national methodology
Result: Does not cause skin sensitization.
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

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

Germ cell mutagenicity

Components:

Isodecyl diphenyl phosphite:

Genotoxicity in vitro	:	Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Species: Bacteria Method: OECD Test Guideline 471 Result: negative GLP: yes
	:	Test Type: DNA repair-suspension assay Species: Bacteria Method: standardized international/national methodology Result: negative GLP: yes
	:	Remarks: Read-across (Analogy)
	:	Test Type: Micronucleus test Species: Human lymphocytes Method: OECD Test Guideline 487 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: Mouse Application Route: Oral Method: OECD Test Guideline 474 Result: negative GLP: yes Remarks: Based on available data, the classification criteria are not met.

Zinc Compounds:

Genotoxicity in vitro	:	Remarks: Read-across (Analogy)
	:	Remarks: Based on available data, the classification criteria are not met.

Stoddard solvent:

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

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

2-(2-Butoxyethoxy) ethanol:

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: Chinese hamster ovary cells
Method: OECD Test Guideline 476
Result: negative
GLP: yes

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
Species: Chinese hamster ovary cells
Method: OECD Test Guideline 473
Result: negative
Remarks: Based on available data, the classification criteria are not met.

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Mouse
Application Route: Oral
Method: OECD Test Guideline 475
Result: negative
Remarks: Based on available data, the classification criteria are not met.

Benzoic acid:

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

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
Species: CHL
Method: OECD Test Guideline 473
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:

Isodecyl diphenyl phosphite:

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

Zinc Compounds:

Remarks: Read-across (Analogy)

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

Stoddard solvent:

Remarks: Suspected of causing cancer.

Triisodecyl phosphite:

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

2-(2-Butoxyethoxy) ethanol:

Remarks: Not classified due to lack of data.

Benzoic acid:

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

Reproductive toxicity

Components:

Isodecyl diphenyl phosphite:

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

Test Type: Screening for reproductive/developmental toxicity
Species: Rat
Application Route: Oral
General Toxicity - Parent: 15
Method: OECD Test Guideline 422
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Remarks: Read-across (Analogy)

Test Type: Screening for reproductive/developmental toxicity

Species: Rat
Application Route: Oral
NOAEL: 15 mg/kg,
Method: OECD Test Guideline 422
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Effects on fetall development : Remarks: Read-across (Analogy)

Species: Rat
Application Route: Oral
Teratogenicity: 15
Method: OECD Test Guideline 422
GLP: yes
Remarks: Based on available data, the classification criteria are not met.
Remarks: Read-across (Analogy)
Species: Rat
Application Route: Oral
15 mg/kg
Method: OECD Test Guideline 422
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Zinc Compounds:

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

Remarks: Suspected of damaging the unborn child.

Remarks: Read-across (Analogy)

Remarks: Suspected of damaging the unborn child.

Stoddard solvent:

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.

2-(2-Butoxyethoxy) ethanol:

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

Test Type: Two-generation study
Species: Mouse
Application Route: Oral
Method: standardized international/national methodology
Remarks: Based on available data, the classification criteria are not met.

Remarks: Read-across (Analogy)

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

Method: standardized international/national methodology
Remarks: Based on available data, the classification criteria are not met.

Effects on fetall development : Species: Rabbit
Application Route: Skin contact
Method: OECD Test Guideline 414

Species: Rat
Application Route: Oral
Method: OECD Test Guideline 414
Remarks: Based on available data, the classification criteria are not met.
Species: Rabbit
Application Route: Skin contact
Method: OECD Test Guideline 414
Species: Rat
Application Route: Oral
Method: OECD Test Guideline 414
Remarks: Based on available data, the classification criteria are not met.

Benzoic acid:

Effects on fertility : Test Type: Reproduction Test
Species: Rat
Application Route: Oral
Remarks: Based on available data, the classification criteria are not met.

Test Type: Reproduction Test
Species: Rat
Application Route: Oral

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

Effects on fetal development	:	Species: Rat, female Application Route: Oral Remarks: Based on available data, the classification criteria are not met. Species: Rat, female Application Route: Oral Remarks: Based on available data, the classification criteria are not met.

STOT - single exposure

Components:

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

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

Stoddard solvent:
Assessment: May cause drowsiness or dizziness.

Triisodecyl phosphite:
Remarks: Not classified

2-(2-Butoxyethoxy) ethanol:
Remarks: Based on available data, the classification criteria are not met.

Benzoic acid:
Exposure routes: Inhalation
Target Organs: Lungs
Assessment: May cause respiratory irritation.

STOT - repeated exposure

Components:

Triisodecyl phosphite:
Remarks: Not classified

Repeated dose toxicity

Components:

Isodecyl diphenyl phosphite:
Remarks: Read-across (Analogy)

Species: Rat
NOAEL: 15 mg/kg

Application Route: Oral
Exposure time: 16 w
Method: OECD Test Guideline 422
GLP: yes
Remarks: May cause damage to organs through prolonged or repeated exposure.

Zinc Compounds:

Remarks: Read-across (Analogy)
Based on available data, the classification criteria are not met.

Stoddard solvent:

Remarks: Read-across (Analogy)
Based on available data, the classification criteria are not met.

2-(2-Butoxyethoxy) ethanol:

Species: Rat
Application Route: Oral
Method: standardized international/national methodology
GLP: yes

Species: Rat
Application Route: Dermal
Method: standardized international/national methodology

Species: Rat
Application Route: Inhalation
Method: standardized international/national methodology
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Benzoic acid:

Species: Rat
Application Route: Oral
Remarks: Based on available data, the classification criteria are not met.

Species: Rabbit
Application Route: Dermal
Exposure time: 21 days
Method: standardized international/national methodology
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Species: Rat
Application Route: Inhalation
Exposure time: 4 weeks
Method: OECD Test Guideline 412
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Aspiration toxicity

Components:

Isodecyl diphenyl phosphite:
Based on available data, the classification criteria are not met.

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

Stoddard solvent:
May be fatal if swallowed and enters airways.

Triisodecyl phosphite:
No data available

2-(2-Butoxyethoxy) ethanol:
Not classified due to lack of data.

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Isodecyl diphenyl phosphite:

Toxicity to fish	:	Remarks: study technically not feasible
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: study technically not feasible
Toxicity to algae	:	Remarks: study technically not feasible
Toxicity to bacteria	:	Remarks: study technically not feasible

Ecotoxicology Assessment

Acute aquatic toxicity	:	Based on available data, the classification criteria are not met.
Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects., Upon contact with water PDDP readily hydrolyses into a mixture of phosphorous acid, isodecanol and phenol in an approximate molar

ratio of 1:2:1., Ecological data therefore refers only to the effects of the decomposition products.

Zinc Compounds:

Toxicity to fish	:	Remarks: Read-across (Analogy) LC50 (Cyprinus carpio (Carp)): 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: Read-across (Analogy) EC50 (Daphnia magna (Water flea)): 5 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	:	Remarks: Read-across (Analogy) EC50 (Pseudokirchneriella subcapitata (green algae)): 2.72 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to fish (Chronic toxicity)	:	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 (Chronic toxicity)	:	Remarks: Read-across (Analogy) NOEC: 0,037 - 0,400 mg Zn/L Test Type: Fresh water Remarks: Read-across (Analogy) NOEC: 0,0056 - 0,9 mg Zn/L Test Type: Marine water

Toxicity to bacteria	:	IC50 (activated sludge): > 100 mg/l Exposure time: 3 h Test Type: static test Method: OECD Test Guideline 209 GLP:

Ecotoxicology Assessment

Acute aquatic toxicity	:	Based on available data, the classification criteria are not met.
Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.

Stoddard solvent:

Ecotoxicology Assessment

Acute aquatic toxicity	:	No data available
Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.

2-(2-Butoxyethoxy) ethanol:

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,300 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: no
Toxicity to daphnia and other aquatic invertebrates	:	NOEC (Daphnia magna (Water flea)): >= 100 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)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to bacteria	:	EC10 (activated sludge): > 1,995 mg/l Exposure time: 0.5 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP: no

Ecotoxicology Assessment

Acute aquatic toxicity	:	Based on available data, the classification criteria are not met.
Chronic aquatic toxicity	:	Based on available data, the classification criteria are not met.

Benzoic acid:

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 44.6 mg/l Exposure time: 96 h Test Type: static test Method: standardized international/national methodology
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 102 mg/l Exposure time: 24 h Test Type: static test Method: OECD Test Guideline 202 LC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: standardized international/national methodology
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 GLP: yes
Toxicity to fish (Chronic toxicity)	:	Remarks: study scientifically unjustified
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: study scientifically unjustified
Toxicity to bacteria	:	IC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP:

Ecotoxicology Assessment

Acute aquatic toxicity	:	Based on available data, the classification criteria are not met.
Chronic aquatic toxicity	:	Based on available data, the classification criteria are not met.

Persistence and degradability

Components:

Isodecyl diphenyl phosphite:

Biodegradability	:	aerobic Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 28 d Method: OECD Test Guideline 301D

Zinc Compounds:

Biodegradability : Remarks: Read-across (Analogy)

aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 70 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: yes

Stoddard solvent:

Biodegradability : Remarks: Inherently biodegradable.

2-(2-Butoxyethoxy) ethanol:

Biodegradability : aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 85 %
Exposure time: 28 d
Method: OECD Test Guideline 301C
GLP: no

Benzoic acid:

Biodegradability : aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Exposure time: >= 56 d
Method: OECD Test Guideline 301

Bioaccumulative potential

Components:

Isodecyl diphenyl phosphite:

Bioaccumulation : Bioconcentration factor (BCF): 606.5
Method: QSAR

Zinc Compounds:

Bioaccumulation : Remarks: Read-across (Analogy)
This substance is not considered to be bioaccumulating.

Partition coefficient: n-octanol/water : log Pow: > 5.7
Method: OECD Test Guideline 107
GLP: no

Stoddard solvent:

Bioaccumulation : Remarks: No data available

Triisodecyl phosphite:

Bioaccumulation	:	Remarks: No data available
Partition coefficient: n-octanol/water	:	Remarks: No data available

2-(2-Butoxyethoxy) ethanol:

Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.
Partition coefficient: n-octanol/water	:	log Pow: 1 (20 °C) pH: 7 Method: OECD Test Guideline 117

Benzoic acid:

Bioaccumulation	:	Remarks: No data available

Mobility in soil

Components:

Isodecyl diphenyl phosphite:

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

Zinc Compounds:

Mobility	:	Remarks: Not applicable

Stoddard solvent:

Mobility	:	Remarks: No data available

Triisodecyl phosphite:

Mobility	:	Remarks: No data available

2-(2-Butoxyethoxy) ethanol:

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

Benzoic acid:

Mobility	:	Remarks: No data available

Other adverse effects

Components:

Isodecyl diphenyl phosphite:

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

Zinc Compounds:

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

Stoddard solvent:

Results of PBT and vPvB assessment	:	Remarks: No data available
Endocrine disrupting potential	:	No information available.

Triisodecyl phosphite:

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

2-(2-Butoxyethoxy) ethanol:

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

Benzoic acid:

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

UN/ID/NA number	:	NA 1993
Proper shipping name	:	COMBUSTIBLE LIQUID, N.O.S. (Stoddard solvent, solution)
Class	:	3
Packing group	:	III
Labels	:	Combustible Liquid
Marine pollutant	:	yes

International Regulations

IATA-DGR

UN/ID No.	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diphenyl(isodecyl)phosphite, Stoddard solvent, 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. (diphenyl(isodecyl)phosphite, Stoddard solvent, 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.

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	15.0
Glycol ethers (N230)	112-34-5	3

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

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

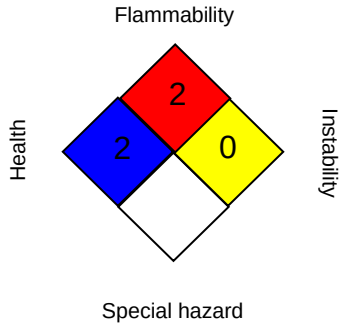
SECTION 16. OTHER INFORMATION

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; 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

NFPA:



HMIS III:

HEALTH	**2***
FLAMMABILITY	**2**
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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