SECTION 1. IDENTIFICATION

Product identifier

Trade name	:	**UBZ 7972 HF**

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

Use of the Substance/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	:	Cell Phone: 1-513-604-2327
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 irritation	:	Category 2
Eye irritation	:	Category 2A
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3 (Central nervous system)
Specific target organ toxicity - repeated exposure	:	Category 2 (Nervous system)
Aspiration hazard	:	Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements :

H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs (Nervous system) 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.
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 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Storage:

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
Contains organic solvents.

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Isodecyl diphenyl phosphite	26544-23-0	>= 25*
Distillates (petroleum), hydrotreated light	64742-47-8	>= 25*
Barium Compounds*	Trade Secret	< 20*
Zinc Compounds*	Trade Secret	< 10*
2-(2-Butoxyethoxy) ethanol	112-34-5	< 10*
Dibenzoyl methane	120-46-7	< 10*
Barium Compounds*	Trade Secret	< 20*
Zinc Compounds*	Trade Secret	< 10*
Diisodecyl phenyl phosphite	25550-98-5	< 20*
Triphenyl phosphite	101-02-0	< 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 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 firefighting	:	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	:	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
Barium, soluble compounds (as Ba)	Not Assigned	air 8 h	0.5 mg/m3 (Barium)	ACGIH
		PEL	0.5 mg/m3 (Barium)	OSHA
		TWA	0.5 mg/m3 (Barium)	NIOSH REL
2-(2-Butoxyethoxy) ethanol	112-34-5	air 8 h	10 ppm	ACGIH
Distillates (petroleum), hydrotreated light	64742-47-8	air 8 h	200 mg/m3	ACGIH
		TWA	100 ppm	NIOSH REL
		PEL	100 ppm 400 mg/m3	Z1A
Particulates Not Otherwise Regulated (PNOR) Respirable fraction		PEL	5 mg/m3	OSHA
		air 8 h	3 mg/m3	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	:	237 - 277 °C Value refers to the solvent.
Flash point	:	105 °CValue refers to the solvent.
Evaporation rate	:	No data available
Flammability (liquids)	:	Combustible Liquid
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapor pressure	:	0.02 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	:	243 °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	:	Vapours 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: 2,113 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 6.7 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: standardised 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.

Distillates (petroleum), hydrotreated light:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 420 GLP: yes

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

Acute inhalation toxicity : LC50 (Rat): > 5.28 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Barium Compounds:

Acute oral toxicity : Remarks: Classification
Labelling according to EC Directives
Regulation (EC) No 1272/2008, Annex VI, Table 3
Acute oral toxicity
Category 4

Acute inhalation toxicity : Remarks: Classification
Labelling according to EC Directives
Regulation (EC) No 1272/2008, Annex VI, Table 3
Acute inhalation toxicity
Category 4

Zinc Compounds:

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

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.

Dibenzoyl methane:

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423 GLP: yes Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Remarks: study scientifically unjustified
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes

Barium Compounds:

Acute oral toxicity	:	Remarks: Classification Labelling according to EC Directives Regulation (EC) No 1272/2008, Annex VI, Table 3 Acute oral toxicity Category 4
Acute inhalation toxicity	:	Remarks: Classification Labelling according to EC Directives Regulation (EC) No 1272/2008, Annex VI, Table 3 Acute inhalation toxicity Category 4
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.

Zinc Compounds:

Acute oral toxicity	:	Remarks: Read-across (Analogy)

LD50 (Rat): > 2,000 mg/kg
Method: Calculation method
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: > 2,000 mg/kg
Method: Calculation method
Remarks: Based on available data, the classification criteria are not met.

Diisodecyl phenyl phosphite:

Acute oral toxicity : LD50 (Rat): > 5,000 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): > 11.7 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): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Triphenyl phosphite:

Acute oral toxicity : LD50 (Rat): 1,590 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 6.7 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): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

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

Skin corrosion/irritation

Components:

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

Distillates (petroleum), hydrotreated light:
Species: Rabbit
Method: OECD Test Guideline 404
Result: irritating
GLP: yes

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.

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.

Dibenzoyl methane:
Species: in vitro assay
Method: OECD Test Guideline 439
Result: not irritating
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

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

Zinc Compounds:

Species: reconstructed human epidermis (RhE)
Method: OECD Test Guideline 439
Result: not irritating
GLP: yes

Diisodecyl phenyl phosphite:

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

Triphenyl phosphite:

Species: Guinea pig
Exposure time: 24 h
Method: standardised international/national methodology
Result: slight irritation

Serious eye damage/eye irritation

Components:

Isodecyl diphenyl phosphite:

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

Distillates (petroleum), hydrotreated light:

Species: Rabbit
Result: not irritating
Method: standardised international/national methodology
GLP: yes
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

2-(2-Butoxyethoxy) ethanol:

Species: Rabbit
Result: highly irritant
Method: OECD Test Guideline 405

GLP: no

Dibenzoyl methane:

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

Barium Compounds:

Species: in vitro assay
Result: Causes serious eye damage.
Exposure time: 240 min
Method: OECD Test Guideline 437
GLP: yes

Zinc Compounds:

Species: Bovine cornea
Result: Causes serious eye damage.
Method: OECD Test Guideline 437
GLP: yes

Diisodecyl phenyl phosphite:

Species: Rabbit
Result: not irritating
Method: OECD Test Guideline 405
GLP: no
Remarks: Based on available data, the classification criteria are not met.

Triphenyl phosphite:

Species: Rabbit
Result: irritating
Method: OECD Test Guideline 405
GLP: no

Respiratory or skin sensitization

Components:

Isodecyl diphenyl phosphite:

Remarks: Skin sensitization

Test Type: Maximisation Test
Species: Guinea pig
Method: standardised international/national methodology
Result: Sensitising

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

Distillates (petroleum), hydrotreated light:

Remarks: Skin sensitization

Test Type: Buehler Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitization.
GLP: yes
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.

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.

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.

Dibenzoyl methane:

Remarks: Skin sensitization

Test Type: LLNA
Species: Mouse
Method: OECD Test Guideline 429
Result: Sensitising
GLP: yes

Remarks: Respiratory sensitization

Remarks: Not classified due to lack of data.

Barium Compounds:

Remarks: Skin sensitization

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

Remarks: Respiratory sensitization

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

Zinc Compounds:

Remarks: Skin sensitization

Method: QSAR
Result: Not a skin sensitizer.
Remarks: Based on available data, the classification criteria are not met.

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

Diisodecyl phenyl phosphite:

Remarks: Skin sensitization

Test Type: LLNA
Species: Mouse
Method: OECD Test Guideline 429
Result: Sensitizing
GLP: yes

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

Triphenyl phosphite:

Remarks: Skin sensitisation

Test Type: LLNA
Species: Mouse
Method: OECD Test Guideline 429
Result: Sensitising
GLP: yes

Remarks: Respiratory sensitisation
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: standardised 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.

Distillates (petroleum), hydrotreated light:

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	:	Test Type: Genotoxicity in vivo

Species: Rat
Application Route: intraperitoneally
Method: OECD Test Guideline 478
Result: negative

Test Type: Genotoxicity in vivo
Species: Mouse
Application Route: intraperitoneally
Method: OECD Test Guideline 478
Result: negative

Test Type: Genotoxicity in vivo
Species: Mouse
Application Route: Inhalation
Method: OECD Test Guideline 478
Result: negative

Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Rat
Application Route: intraperitoneally
Method: OECD Test Guideline 475
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.

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.

Dibenzoyl methane:

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

Barium Compounds:

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

Zinc Compounds:

Genotoxicity in vitro	:	Remarks: Read-across (Analogy)
	:	Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Species: Bacteria Method: OECD Test Guideline 471 Result: negative GLP: yes
	:	Remarks: Read-across (Analogy)
	:	Test Type: In vitro gene mutation study in mammalian cells Species: mouse lymphoma cells

Method: OECD Test Guideline 476
Result: negative
GLP: yes

: Remarks: Read-across (Analogy)

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
Species: Chinese hamster ovary cells
Method: OECD Test Guideline 473
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: Rat
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

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

Triphenyl 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
Result: negative

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.

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.

Distillates (petroleum), hydrotreated light:

Species: Mouse
Application Route: Skin contact
Method: OECD Test Guideline 451
GLP: yes
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.

2-(2-Butoxyethoxy) ethanol:

Remarks: Not classified due to lack of data.

Dibenzoyl methane:

Remarks: Not classified due to lack of data.

Barium Compounds:

Remarks: Read-across (Analogy)

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

Zinc Compounds:

Remarks: Not classified due to lack of data.

Diisodecyl phenyl phosphite:

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

Triphenyl phosphite:

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 NOAEL: 15 mg/kg, Method: OECD Test Guideline 422 GLP: yes Remarks: Based on available data, the classification criteria are not met.
Effects on foetal development	:	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.

Distillates (petroleum), hydrotreated light:

Effects on fertility	:	Test Type: One-generation reproduction toxicity test Species: Rat Application Route: Oral Test Type: Screening for reproductive/developmental toxicity Species: Rat Application Route: Skin contact NOAEL: > 494 mg/kg, Method: OECD Test Guideline 421

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

Effects on foetal development : Species: Rat
Application Route: Inhalation
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.

Zinc Compounds:

Effects on fertility :

Remarks: Read-across (Analogy)

Remarks: Suspected of damaging the unborn child.

2-(2-Butoxyethoxy) ethanol:

Effects on fertility :

Remarks: Read-across (Analogy)

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

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

Effects on foetal 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.

Dibenzoyl methane:

Effects on fertility :

Remarks: Not classified due to lack of data.

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

Barium Compounds:

Effects on fertility :

Remarks: Read-across (Analogy)

Remarks: Suspected of damaging the unborn child.

Zinc Compounds:

Effects on fertility :

Remarks: Read-across (Analogy)

Test Type: Screening for reproductive/developmental toxicity
Species: Rat
NOAEL:
F1: 1,000 mg/kg,
Method: OECD Test Guideline 422
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Diisodecyl phenyl phosphite:

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

Test Type: Screening for reproductive/developmental toxicity
Species: Rat
Application Route: Oral
General Toxicity - Parent: 1,000
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
Test period: 8 weeks
NOAEL: 1,000 mg/kg,
Method: OECD Test Guideline 422
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

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

Species: Rat
Application Route: Oral
Teratogenicity: 1,000
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
1,000 mg/kg
Method: OECD Test Guideline 422
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Triphenyl phosphite:

Effects on fertility : Test Type: Screening for reproductive/developmental toxicity
Species: Rat
Application Route: Oral
NOAEL:
F1: 15 mg/kg,
Method: OECD Test Guideline 422
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Effects on foetal development : Species: Rat
Application Route: Oral
15 mg/kg bw/day
Method: OECD Test Guideline 422
GLP: yes
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.

Distillates (petroleum), hydrotreated light:
Assessment: May cause drowsiness or dizziness.

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

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

Dibenzoyl methane:
Remarks: Not classified due to lack of data.

Barium Compounds:
Remarks: Not classified due to lack of data.

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

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

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

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.

Distillates (petroleum), hydrotreated light:
Species: Rat
Application Route: Oral
Exposure time: <= 90 d
Remarks: Based on available data, the classification criteria are not met.

Species: rat / mouse
Application Route: Inhalation
Exposure time: 90 d
Method: OECD Test Guideline 413
Remarks: Based on available data, the classification criteria are not met.

Species: Rat
Application Route: Dermal
Exposure time: 28 d
Method: OECD Test Guideline 410

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

Zinc Compounds:

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

2-(2-Butoxyethoxy) ethanol:

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

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

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

Dibenzoyl methane:

Species: Rat
NOAEL: 62.5 mg/kg
Application Route: Oral
Exposure time: 90 d
Method: OECD Test Guideline 408
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Barium Compounds:

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

Zinc Compounds:

Remarks: Read-across (Analogy)

Species: Rat
NOAEL: 100 mg/kg
Method: OECD Test Guideline 422
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Diisodecyl phenyl phosphite:

Remarks: Read-across (Analogy)

Species: Rat
NOAEL: 1,000 mg/kg
Application Route: Oral
Method: OECD Test Guideline 422
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Triphenyl phosphite:

Species: Rat
NOAEL: 40 mg/kg
Application Route: Oral
Method: OECD Test Guideline 422
GLP: yes

Aspiration toxicity

Components:

Isodecyl diphenyl phosphite:

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

Distillates (petroleum), hydrotreated light:

May be fatal if swallowed and enters airways.

Zinc Compounds:

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

2-(2-Butoxyethoxy) ethanol:

Not classified due to lack of data.

Dibenzoyl methane:

Not classified due to lack of data.

Barium Compounds:

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

Zinc Compounds:

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

Diisodecyl phenyl phosphite:

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

Triphenyl phosphite:

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.

Distillates (petroleum), hydrotreated light:

Toxicity to fish	:	LL50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes Remarks: Value refered to the Water accumulated fraction (WAF).
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 1.4 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes Remarks: Value refered to the Water accumulated fraction (WAF).
Toxicity to algae	:	EL50 (Pseudokirchneriella subcapitata (green algae)): 1 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes

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

Toxicity to fish (Chronic toxicity)	:	NOEL (Oncorhynchus mykiss (rainbow trout)): 0.098 mg/l Exposure time: 28 d Method: QSAR GLP: no
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEL (Daphnia magna (Water flea)): 0.48 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211 GLP: yes Remarks: Value refered to the Water accumulated fraction (WAF).
Toxicity to bacteria	:	LL50 (Tetrahymena pyriformis): 677.9 mg/l Exposure time: 72 h Method: QSAR GLP: no

Barium Compounds:

Ecotoxicology Assessment

Acute aquatic toxicity	:	Not classified due to lack of data.
Chronic aquatic toxicity	:	Not classified due to lack of data.

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.

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.

Dibenzoyl methane:

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	:	2.68 mg/l Exposure time: 96 h Method: QSAR

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.

Barium Compounds:

Toxicity to fish	:	Remarks: Read-across (Analogy) EC50 (Danio rerio (zebra fish)): > 97.5 mg Ba/L Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: Read-across (Analogy) LC50 (Daphnia magna (Water flea)): 14.5 mg Ba/L Exposure time: 96 h Test Type: static test Method: standardised international/national methodology
Toxicity to algae	:	Remarks: Read-across (Analogy) EC50 (Pseudokirchneriella subcapitata (green algae)): > 34,3 mg Ba/L Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201
GLP: yes

Toxicity to bacteria : GLP:
Remarks: Read-across (Analogy)

EC50 (activated sludge): > 500 mg Ba/L
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
GLP: yes

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.

Zinc Compounds:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,169 mg Zn/L
Exposure time: 96 h
Test Type: static test
Method: standardised international/national methodology

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

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 0.147 - > 0,53 mg Zn/l

Toxicity to algae : Remarks: Read-across (Analogy)

NOEC (algae): 0.06 mg/l

Toxicity to fish (Chronic toxicity) : NOEC: 0,044 - 0,530 mg Zn/L
Test Type: Fresh water

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,014 - 0,400 mg Zn/L
Test Type: Fresh water

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

Toxicity to bacteria : EC50 (activated sludge): 5,2 mg Zn/l
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209

Ecotoxicology Assessment

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

Diisodecyl phenyl phosphite:

Toxicity to fish	:	(Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.2 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): 45 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes

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.

Triphenyl 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 scientifically unjustified

Ecotoxicology Assessment

Acute aquatic toxicity	:	Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Very toxic to aquatic life.
Chronic aquatic toxicity	:	Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Very toxic to aquatic life with long lasting effects.

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

Distillates (petroleum), hydrotreated light:

Biodegradability : aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 61 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

Barium Compounds:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

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

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

Dibenzoyl methane:

Biodegradability : aerobic
Inoculum: activated sludge
Result: Readily biodegradable.

Biodegradation: 89 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

Barium Compounds:

Biodegradability : Result: Readily biodegradable.
Remarks: The organic components of the product are biodegradable.

Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Zinc Compounds:

Biodegradability : Remarks: Read-across (Analogy)

aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 92 %
Exposure time: 28 d
Method: OECD Test Guideline 301C

Diisodecyl phenyl phosphite:

Biodegradability : aerobic
Inoculum: activated sludge
Result: Inherently biodegradable.
Biodegradation: 10 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

Triphenyl phosphite:

Biodegradability : aerobic
Result: Not readily biodegradable.
Biodegradation: 2.46 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: No information available.

Bioaccumulative potential

Components:

Isodecyl diphenyl phosphite:

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

Distillates (petroleum), hydrotreated light:

Bioaccumulation	:	Remarks: No data available

Barium Compounds:

Bioaccumulation	:	Remarks: Read-across (Analogy) Remarks: Bioaccumulation is unlikely.

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

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

Dibenzoyl methane:

Bioaccumulation	:	Remarks: study scientifically unjustified
Partition coefficient: n-octanol/water	:	log Pow: < 3

Barium Compounds:

Bioaccumulation	:	Remarks: Read-across (Analogy) Remarks: This substance is not considered to be bioaccumulating.
Partition coefficient: n-octanol/water	:	Remarks: Not applicable

Zinc Compounds:

Bioaccumulation	:	Remarks: Read-across (Analogy) Remarks: Bioaccumulation is unlikely.

Diisodecyl phenyl phosphite:

Bioaccumulation	:	Bioconcentration factor (BCF): 33.27 - 606.5 Method: QSAR
Partition coefficient: n-octanol/water	:	log Pow: 9.32 (20 °C)

Triphenyl phosphite:

Bioaccumulation	:	Bioconcentration factor (BCF): 862.2 - 10,902 Method: QSAR Remarks: Hydrolysis not considered

Mobility in soil

Components:

Isodecyl diphenyl phosphite:

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

Distillates (petroleum), hydrotreated light:

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

Barium Compounds:

Mobility	:	Remarks: No data available

Zinc Compounds:

Mobility	:	Remarks: Not applicable

2-(2-Butoxyethoxy) ethanol:

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

Dibenzoyl methane:

Mobility	:	Remarks: No data available

Barium Compounds:

Mobility	:	Remarks: Not applicable

Diisodecyl phenyl phosphite:

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

Triphenyl phosphite:

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

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.

Distillates (petroleum), hydrotreated light:

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

Barium Compounds:

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.

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.

Dibenzoyl methane:

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

Barium Compounds:

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.

Diisodecyl phenyl phosphite:

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

Triphenyl phosphite:

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 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diphenyl(isodecyl)phosphite, 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, 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.
Barium Compounds (N040)	Not Assigned	13.1
Zinc Compounds (N982)	Not Assigned	5.5
Glycol ethers (N230)	112-34-5	2.0

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

TSCA	listed
DSL	listed
CHINA	listed
EINECS	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

Revision Date : 09/24/2021

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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