SECTION 1. IDENTIFICATION

Product identifier

Trade name : **B 1360**

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

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids	:	Category 4
Acute toxicity (Oral)	:	Category 4
Skin irritation	:	Category 2
Serious eye damage	:	Category 1
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 1
Aspiration hazard	:	Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements :

H227 Combustible liquid.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H360Fd May damage fertility. 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/ vapours/ 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:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
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.
P362 Take off contaminated clothing and wash 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

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	< 20*
Barium Compounds*	Trade Secret	< 20*
Barium Compounds*	Trade Secret	< 20*
Zinc Compounds*	Trade Secret	< 20*
Zinc Compounds*	Trade Secret	< 20*
2-(2-Butoxyethoxy) ethanol	112-34-5	< 10*
Calcium Compounds*	Trade Secret	< 20*
Barium Compounds*	Trade Secret	< 10*
Naphthalene	91-20-3	< 1*
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 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
Barium, soluble compounds (as Ba)	Not Assigned	air 8 h	0.5 mg/m3 (Barium)	ACGIH
		TWA	0.5 mg/m3 (Barium)	NIOSH REL
		TWA	0.5 mg/m3 (Barium)	OSHA
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
2-(2-Butoxyethoxy) ethanol	112-34-5	air 8 h	10 ppm	ACGIH
Naphthalene	91-20-3	TWA	10 ppm (ST) 15 ppm	NIOSH REL
		TWA	10 ppm (ST) 15 ppm	ACGIH TLV
		PEL	10 ppm 50 mg/m3	OSHA
Particulates Not Otherwise Regulated (PNOR)		TWA	5 mg/m3	OSHA PEL
		TWA	3 mg/m3	ACGIH TLV

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	:	189 - 209 °C Value refers to the solvent.
Flash point	:	> 61 °C
Evaporation rate	:	No data available
Flammability (liquids)	:	Combustible Liquid
Upper explosion limit	:	ca. 5.4 %(V) Value refers to the solvent.
Lower explosion limit	:	ca. 0.7 %(V) Value refers to the solvent.
Vapor pressure	:	0.4 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	:	230 °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	:	LD50 (Rat): > 1,000 mg/kg
Acute inhalation toxicity	:	Acute toxicity estimate: 6.37 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

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

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.

Calcium Compounds:

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

LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 401
GLP: no
Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Not classified due to lack of data.

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.

Barium Compounds:

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

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

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

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

Naphthalene:

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

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
Exposure time: 24 h
Method: standardised international/national methodology
Result: irritating
GLP: yes

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: not irritating
GLP: yes

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:

Remarks: Not classified due to lack of data.

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.

Calcium Compounds:

Species: reconstructed human epidermis (RhE)
Method: OECD Test Guideline 439
Result: Causes skin irritation.
GLP: yes

Species: In Vitro Membrane Barrier Test Method for Skin Corrosion - CORROSITEX

Method: OECD Test Guideline 435
Result: No corrosion
GLP: yes

Barium Compounds:

Remarks: Not classified due to lack of data.

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.

Barium Compounds:

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

Zinc Compounds:

Remarks: Not classified due to lack of data.

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

Calcium Compounds:

Species: Rabbit
Result: Causes serious eye damage.
Method: OECD Test Guideline 405
GLP: yes

Barium Compounds:

Remarks: Not classified due to lack of data.

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 sensitisation

Components:

Isodecyl diphenyl phosphite:

Remarks: Skin sensitisation

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

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

Distillates (petroleum), hydrotreated light:

Remarks: Skin sensitisation

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

Remarks: Respiratory sensitisation

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

Barium Compounds:

Remarks: Skin sensitisation

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

Remarks: Respiratory sensitisation

Remarks: Read-across (Analogy)
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.

Zinc Compounds:

Remarks: Skin sensitisation

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

Remarks: Respiratory sensitisation

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

2-(2-Butoxyethoxy) ethanol:

Remarks: Skin sensitisation

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

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

Calcium Compounds:

Remarks: Skin sensitisation

Remarks: Read-across (Analogy)

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

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

Barium Compounds:

Remarks: Read-across (Analogy)

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

Diisodecyl phenyl 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.

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.

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)

: 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.

Calcium 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 mammalian cell gene mutation test
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: Human lymphocytes
Method: OECD Test Guideline 473
Result: negative
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.

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: standardised international/national methodology
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.

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 known or suspected carcinogens listed by IARC, NTP and/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.

Barium Compounds:

Remarks: Read-across (Analogy)

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.

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.

Calcium Compounds:

Remarks: No data available

Barium Compounds:

Remarks: Read-across (Analogy)

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

Naphthalene:

Remarks: IARC: (International Agency for Research on Cancer)
Category 2B

Remarks: NTP - National Toxicology Program Report
Reasonably anticipated to be a human carcinogen

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 develop-	:	Species: Rat

ment

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.

Barium Compounds:

Effects on fertility :

Remarks: Read-across (Analogy)

Remarks: Suspected of damaging the unborn child.

Zinc Compounds:

Effects on fertility :

Remarks: Classification

Remarks: Labelling according to EC Directives

Remarks: Regulation (EC) No 1272/2008, Annex VI, Table 3

Remarks: May damage fertility.

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.

Calcium Compounds:

Effects on fertility	:	Remarks: Read-across (Analogy) Test Type: Three-generation study Species: Rat Application Route: Oral NOAEL: > 75 mg/kg, Method: OECD Test Guideline 416 Remarks: Based on available data, the classification criteria are not met.
Effects on foetal development	:	Remarks: Read-across (Analogy) Species: Rat Application Route: Oral >75 mg/kg Method: OECD Test Guideline 416 GLP: yes Remarks: Based on available data, the classification criteria are not met.

Barium Compounds:

Effects on fertility	:	Remarks: Classification Remarks: Labelling according to EC Directives Remarks: Regulation (EC) No 1272/2008, Annex VI, Table 3 Remarks: May damage fertility.

Diisodecyl phenyl phosphite:

Effects on fertility :

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 foetal development : 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.

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

Zinc Compounds:
Remarks: Read-across (Analogy)

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

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.

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

Barium Compounds:
Remarks: Read-across (Analogy)

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

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

Species: Rat
Application Route: Dermal
Method: OECD Test Guideline 410
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)

Remarks: Classification
Labelling according to EC Directives
Regulation (EC) No 1272/2008, Annex VI, Table 3
Specific target organ toxicity - repeated exposure
Category 1

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.

Calcium Compounds:

Remarks: Read-across (Analogy)

Species: Rat
NOAEL: 300 mg/kg
Application Route: Oral
Exposure time: 28 d

Remarks: Read-across (Analogy)

Barium Compounds:

Remarks: Read-across (Analogy)

Remarks: Classification
Labelling according to EC Directives
Regulation (EC) No 1272/2008, Annex VI, Table 3
Specific target organ toxicity - repeated exposure
Category 1

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.

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

Zinc Compounds:
Not classified due to lack of data.

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

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

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

Barium Compounds:
Not classified due to lack of data.

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)): 2.5 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)): 1.3 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

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.

Barium Compounds:

Ecotoxicology Assessment

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

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

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:

Ecotoxicology Assessment

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

Chronic aquatic toxicity : Read-across (Analogy), Toxic to aquatic life with long lasting effects.

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.

Calcium Compounds:

Toxicity to fish	:	Remarks: Read-across (Analogy) LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes LL50 (Oncorhynchus mykiss (rainbow trout)): < 300 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: Read-across (Analogy)

EL50 (Daphnia magna (Water flea)): > 457 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 (algae)): > 100 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)

Chronic Toxicity Value (Fish): 1.6 mg/l
Exposure time: 30 d
Method: QSAR

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Read-across (Analogy)

Chronic Toxicity Value (Daphnia magna (Water flea)): 1.7 mg/l

Method: QSAR

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

EC50 (Escherichia coli): 52.5 mg/l
Method: QSAR
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.

Barium Compounds:

Ecotoxicology Assessment

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

Chronic aquatic toxicity : Read-across (Analogy), Toxic to aquatic life with long lasting effects.

Naphthalene:

Ecotoxicology Assessment

Acute aquatic toxicity : Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3, Very toxic to aquatic life.

Chronic aquatic toxicity	:	Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3, Very 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.

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: No data available

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: No data available

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

Calcium Compounds:

Biodegradability : Remarks: Read-across (Analogy)

aerobic
Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 11 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Barium Compounds:

Biodegradability : Remarks: No data available

Diisodecyl phenyl phosphite:

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

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: No data available

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: No data available

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

Calcium Compounds:

Bioaccumulation	:	Remarks: Read-across (Analogy) Species: Oncorhynchus mykiss (rainbow trout) Bioconcentration factor (BCF): 225 Exposure time: 14 d Method: OECD Test Guideline 305 GLP: yes

Barium Compounds:

Bioaccumulation	:	Remarks: No data available

Diisodecyl phenyl phosphite:

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

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

Barium Compounds:

Mobility	:	Remarks: Not applicable

Zinc 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

Calcium Compounds:

Mobility : Remarks: No data available

Barium Compounds:

Mobility : Remarks: No data available

Diisodecyl phenyl 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 : No data available

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.

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.

Calcium Compounds:

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.

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.

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 dangerous goods in containers < 119 gallons (non-bulk)

For bulk containers only:

UN/ID/NA number	:	NA 1993
Proper shipping name	:	COMBUSTIBLE LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light, 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, 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	18.6
Zinc Compounds (N982)	Not Assigned	11.5
Glycol ethers (N230)	112-34-5	4.5
Naphthalene	91-20-3	≤ 0.14

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

EINECS	listed
TSCA	listed
DSL	listed
ECL	listed
CHINA	listed

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

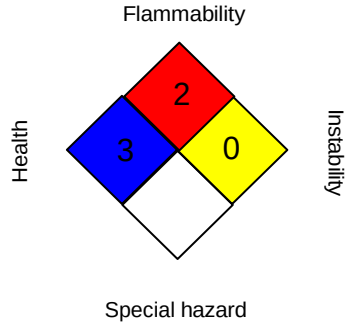
AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; 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

A viation 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 Substanc-

es; (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 ; vP vB - Very Persistent and Very Bioaccumulative

Further information

NFPA:



HMIS III:

HEALTH	3*
FLAMMABILITY	2
PHYSICAL HAZARD	0

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

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