



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

SECTION 1. IDENTIFICATION

Product identifier

Trade name : **UBZ 630 TS**

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

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 2

Specific target organ toxicity
- repeated exposure : Category 1

Aspiration hazard : Category 1



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

GHS label elements

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H302 + H332 Harmful if swallowed or if inhaled.
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.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

:

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
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.
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 + 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.

Storage:

P405 Store locked up.

Disposal:

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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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	< 20*
Distillates (petroleum), hydrotreated light	64742-47-8	< 25*
Barium Compounds*	Trade Secret	< 20*
2-(2-Butoxyethoxy) ethanol	112-34-5	< 10*
Barium Compounds*	Trade Secret	< 20*
Zinc Compounds*	Trade Secret	< 10*
Benzoic acid	65-85-0	< 5*
Barium Compounds*	Trade Secret	< 20*
Zinc Compounds*	Trade Secret	< 10*
Zinc Compounds*	Trade Secret	< 10*
Triphenyl phosphite	101-02-0	< 10*
Diisodecyl phenyl phosphite	25550-98-5	< 15*

*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.



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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 TWA	0.5 mg/m ³ (Barium)	ACGIH TLV
		8 h TWA	0.5 mg/m ³ (Barium)	NIOSH REL
		PEL	0.5 mg/m ³ (Barium)	OSHA
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/m ³	ACGIH
		TWA	100 ppm	NIOSH REL
		PEL	100 ppm 400 mg/m ³	Z1A
Particulates Not Otherwise Regulated (PNOR) Respirable fraction		PEL	5 mg/m ³	OSHA
		TWA	3 mg/m ³	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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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 : yellow

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 °C Value 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
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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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: 1,287 mg/kg
Method: Calculation method
Acute inhalation toxicity : Acute toxicity estimate: 4.55 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.



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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

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.



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.

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): > 2000 mg/kg bw
Method: OECD Test Guideline 402
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Zinc Compounds:

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

Benzoic acid:

Acute oral toxicity : LD50 (Rat): ca. 2,565 mg/kg



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

Method: OECD Test Guideline 401
GLP: no

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

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

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

Barium Compounds:

Acute oral toxicity : LD50 (Rat): > 50 mg/kg
Method: OECD Test Guideline 423
GLP: yes

LD50 (Rat): <= 300 mg/kg
Method: OECD Test Guideline 423
GLP: yes

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: standardised international/national methodology
GLP: yes
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.



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.

Zinc Compounds:

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

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

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

LC50 (Rat): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: Based on available data, the classification criteria are not met.

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

LD50 (Rabbit): > 2000 mg/kg bw
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.

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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.

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

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.

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.

Barium Compounds:

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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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

Zinc Compounds:

Remarks: Read-across (Analogy)

Species: Rabbit

Method: OECD Test Guideline 404

Result: slight irritation

GLP: yes

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

Benzoic acid:

Species: Rabbit

Exposure time: 4 h

Method: Directive 67/548/EEC, Annex V, B.4.

Result: not irritating

GLP: yes

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

Barium Compounds:

Species: reconstructed human epidermis (RhE)

Method: OECD Test Guideline 439

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

Zinc Compounds:

Species: Rabbit

Method: OECD Test Guideline 404

Result: not irritating

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

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.



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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

2-(2-Butoxyethoxy) ethanol:

Species: Rabbit

Result: highly irritant

Method: OECD Test Guideline 405

GLP: no

Barium Compounds:

Species: Rabbit

Result: not irritating

Method: OECD Test Guideline 405

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

Benzoic acid:

Species: Rabbit

Result: Corrosive

Method: Directive 67/548/EEC, Annex V, B.5.



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

GLP: yes

Barium Compounds:

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

Zinc Compounds:

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

Zinc Compounds:

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

Triphenyl phosphite:

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

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.

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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.

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.

Barium Compounds:

Remarks: Skin sensitisation
Read-across (Analogy)

Test Type: LLNA
Species: Mouse
Method: OECD Test Guideline 429
Result: negative
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

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

Zinc Compounds:

Remarks: Skin sensitisation



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.

Benzoic acid:

Remarks: Skin sensitisation

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

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

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

Barium Compounds:

Remarks: Skin sensitisation
Read-across (Analogy)

Test Type: LLNA
Species: Mouse
Method: OECD Test Guideline 429
Result: negative
Remarks: Based on available data, the classification criteria are not met.

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

Zinc Compounds:

Remarks: Skin sensitisation

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

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

Zinc Compounds:

Remarks: Skin sensitisation
Read-across (Analogy)



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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

Remarks: Respiratory sensitisation

Remarks: Not classified due to lack of data.

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.

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.

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)



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

- Genotoxicity in vivo
- : 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.
 - : 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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.

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.

Barium 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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

- : 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.

Zinc Compounds:

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

Benzoic acid:

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

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

Barium Compounds:

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

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

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

Zinc Compounds:

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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

- : 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.
- Zinc Compounds:**
Genotoxicity in vitro : Remarks: Read-across (Analogy)

: Method: standardised international/national methodology
Result: negative
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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.

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.

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.



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

Barium 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.

Barium Compounds:

Remarks: Read-across (Analogy)

Species: Rat

Application Route: Oral

Exposure time: 2 a

Method: standardised international/national methodology

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.

Benzoic acid:

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

Barium Compounds:

Remarks: Not classified due to lack of data.

Zinc 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.

Triphenyl phosphite:

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.

Reproductive toxicity

Components:



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.

Barium Compounds:

Effects on fertility :

Remarks: Read-across (Analogy)

Remarks: Suspected of damaging the unborn child.



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.

Barium Compounds:

Effects on fertility :

Remarks: Read-across (Analogy)

Species: Rat

Application Route: Oral

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

Effects on foetal development :

Remarks: Not classified due to lack of data.

Remarks: Study in progress (external)

Zinc Compounds:

Effects on fertility :

Remarks: Read-across (Analogy)

Remarks: Suspected of damaging the unborn child.

Benzoic acid:

Effects on fertility :

Test Type: Reproduction Test

Species: Rat

Application Route: Oral

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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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

Barium Compounds:

Effects on fertility :

Remarks: Read-across (Analogy)

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

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

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.

Zinc Compounds:

Effects on fertility :

Remarks: Read-across (Analogy)

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

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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.

Diisodecyl phenyl phosphite:

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.

2-(2-Butoxyethoxy) ethanol:

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

Zinc Compounds:

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

Benzoic acid:

Exposure routes: Inhalation

Target Organs: Lungs

Assessment: May cause respiratory irritation.

Barium 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.

Zinc Compounds:

Remarks: Read-across (Analogy)



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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

Triphenyl phosphite:

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.

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.

Barium 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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.

Barium Compounds:

Remarks: Read-across (Analogy)

Species: Rat
NOAEL: 61.1 mg/kg
Application Route: Oral
Exposure time: 92 d
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.

Benzoic acid:

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

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

Species: Rat
Application Route: Inhalation
Exposure time: 4 weeks
Method: OECD Test Guideline 412
GLP: yes

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

Barium Compounds:

Remarks: Read-across (Analogy)

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

Zinc Compounds:

Remarks: Read-across (Analogy)



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

Species: Rat
NOAEL: 100 mg/kg
Method: OECD Test Guideline 422
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.

Triphenyl phosphite:

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

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.

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.

2-(2-Butoxyethoxy) ethanol:

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.



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

Benzoic acid:

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

Barium Compounds:

Not classified due to lack of data.

Zinc Compounds:

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

Zinc Compounds:

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

Triphenyl phosphite:

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

Diisodecyl phenyl 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.



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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 referred 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 referred 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 referred 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 referred 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:

- 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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

- 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.

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)): \geq 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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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)

LC50 (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: 48 h
Test Type: static test

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

NOEC (Pseudokirchneriella subcapitata (green algae)): >= 34,31 mg Ba/L
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

EC50 (Pseudokirchneriella subcapitata (green algae)): > 34,31 mg Ba/L
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

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

EC16 (Daphnia magna (Water flea)): 5.8 mg/l
Exposure time: 21 d
Test Type: semi-static test

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

NOEC (activated sludge): >= 500,61 mg Ba/L
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
GLP: yes



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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 : 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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.

Benzoic acid:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 44.6 mg/l
Exposure time: 96 h
Test Type: static test
Method: standardised international/national methodology

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 102 mg/l
Exposure time: 24 h
Test Type: static test
Method: OECD Test Guideline 202

LC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: standardised international/national methodology

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
GLP: yes

Toxicity to fish (Chronic toxicity) : Remarks: study scientifically unjustified

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: study scientifically unjustified

Toxicity to bacteria : IC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
GLP:

Ecotoxicology Assessment

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

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

Barium Compounds:

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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

		LC50 (Lepomis macrochirus (Bluegill sunfish)): 44.6 mg/l Exposure time: 96 h Test Type: static test Method: standardised international/national methodology
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: Read-across (Analogy) LC50 (Daphnia magna (Water flea)): 14.5 mg/l Exposure time: 48 h Test Type: static test Method: standardised international/national methodology
Toxicity to algae	:	Remarks: Read-across (Analogy) NOEC (Pseudokirchneriella subcapitata (green algae)): 0.11 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 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l Exposure time: 28 d Test Type: semi-static test Method: standardised international/national methodology
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: Read-across (Analogy) NOEC (Daphnia magna (Water flea)): 25 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211
Toxicity to bacteria	:	GLP: Remarks: Read-across (Analogy) (activated sludge): > 1,000 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	:	Based on available data, the classification criteria are not met.

Zinc Compounds:



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.

Zinc Compounds:

Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (algae)): 0.199 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes (Pseudokirchneriella subcapitata (algae)): 0.065 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
M-Factor (Acute aquatic toxicity)	:	1
M-Factor (Chronic aquatic toxicity)	:	1



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

Ecotoxicology Assessment

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

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.

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

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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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

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

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

Barium Compounds:

Biodegradability : 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: 70 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: yes

Benzoic acid:

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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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

Zinc 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.

Triphenyl phosphite:

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



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

Distillates (petroleum), hydrotreated light:

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

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

Barium Compounds:

Bioaccumulation : Remarks: Read-across (Analogy)

Bioconcentration factor (BCF): 6.4 - 74.4

Remarks: Barium

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

Benzoic acid:

Bioaccumulation : Remarks: No data available

Barium Compounds:

Bioaccumulation : Remarks: No data available

Zinc Compounds:

Bioaccumulation : Remarks: Read-across (Analogy)

Remarks: Bioaccumulation is unlikely.

Zinc Compounds:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Triphenyl phosphite:

Bioaccumulation : Bioconcentration factor (BCF): 862.2 - 10,902



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

Method: QSAR
Remarks: Hydrolysis
not considered

Diisodecyl phenyl phosphite:

Bioaccumulation : Bioconcentration factor (BCF): 33.27 - 606.5
Method: QSAR

Partition coefficient: : log Pow: 9.32 (20 °C)
n-octanol/water

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: Not applicable

2-(2-Butoxyethoxy) ethanol:

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

Barium Compounds:

Mobility : Remarks: No data available

Zinc Compounds:

Mobility : Remarks: Not applicable

Benzoic acid:

Mobility : Remarks: No data available

Barium Compounds:

Mobility : Remarks: No data available

Zinc Compounds:

Mobility : Remarks: No data available



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

Triphenyl phosphite:

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

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

assessment

Endocrine disrupting potential : No information available.

Distillates (petroleum), hydrotreated light:

Results of PBT and vPvB : Based on available data, the classification criteria are not met.
assessment

Endocrine disrupting potential : No information available.

Barium Compounds:

Results of PBT and vPvB : Based on available data, the classification criteria are not met.
assessment

Endocrine disrupting potential : No information available.

2-(2-Butoxyethoxy) ethanol:

Results of PBT and vPvB : Based on available data, the classification criteria are not met.
assessment

Endocrine disrupting potential : No information available.

Barium Compounds:

Results of PBT and vPvB : Based on available data, the classification criteria are not met.
assessment

Endocrine disrupting potential : No information available.

Zinc Compounds:

Results of PBT and vPvB : Based on available data, the classification criteria are not met.
assessment

Endocrine disrupting potential : No information available.

Benzoic acid:



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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.

Zinc Compounds:

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.

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.



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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)

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)

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	27.6
Zinc Compounds (N982)	Not Assigned	14.2
Glycol ethers (N230)	112-34-5	8.3



UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

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

EINECS	listed
TSCA	listed
DSL	listed
AICS	listed
CHINA	listed

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International

Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New

Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative



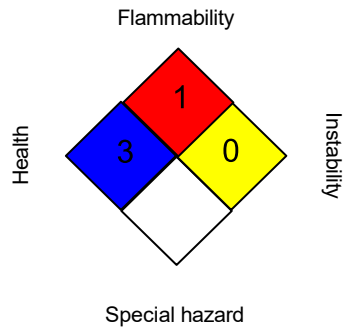
UBZ 630 TS

Version 1.3

Revision Date 09/22/2022

Further information

NFPA:



HMIS III:

HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	0

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

Revision Date : 09/22/2022

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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