



B 2172

Version 1.3

Revision Date 08/20/2020

SECTION 1. IDENTIFICATION

Product identifier

Trade name : **B 2172**

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 : Day 330-602-1528 or 330-602-1531
: Night 513-207-1620 or 513-604-2327

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

Responsible/issuing person : Product Safety Department

Emergency telephone number (0 - 24 h)

Tel.: 800-424-9300 USA or 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitisation : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

Aspiration hazard : Category 1

GHS label elements

Hazard pictograms :



Signal word : **Danger**



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- Hazard statements : H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.
- 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.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
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.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
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.



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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) |
|--|--------------|-----------------------|
| Barium Compounds* | Trade Secret | $\geq 20^*$ |
| Tridodecyl phosphite | 3076-63-9 | $\geq 20^*$ |
| Stoddard solvent | 8052-41-3 | $< 20^*$ |
| Zinc Compounds* | Trade Secret | $< 20^*$ |
| 4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol] | 1843-03-4 | $< 10^*$ |

*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.
Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.



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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/m ³ (Barium) | ACGIH |
| | | TWA | 0.5 mg/m ³ (Barium) | NIOSH REL |
| | | PEL | 0.5 mg/m ³ (Barium) | OSHA |
| Stoddard solvent | 8052-41-3 | air 8 h | 100 ppm | ACGIH |
| | | PEL | 500 ppm 2,900 mg/m ³ | OSHA Z-1 |



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| | | | | |
|--|--------------|-------------------------------|-----------------------|-----------|
| | | TWA | 350 mg/m ³ | NIOSH REL |
| General limits for air contaminants (PNOC) | Not Assigned | air 8 h (total dust) | 15 mg/m ³ | OSHA |
| | | air 8 h (Respirable fraction) | 5 mg/m ³ | OSHA |
| | | air 8 h (inhalable dust) | 10 mg/m ³ | ACGIH |
| | | air 8 h (Respirable fraction) | 3 mg/m ³ | ACGIH |

Engineering measures : Local exhaust

Personal protective equipment

Respiratory protection : Up to 0.5 mg/m³: (APF=10) Any air-purifying respirator with a high-efficiency particulate filter/(APF=10) Any air-supplied respirator

Hand protection

Material : protective gloves acc. to EN 374, e.g. neoprene
Glove thickness : >= 0.7 mm

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing
Rubber apron

Protective measures : antistatic shoes

Hygiene measures : When using do not eat or drink.
Do not smoke.
Wash hands before breaks and at the end of workday.
Shower or bathe at the end of working.
Keep working clothes separately.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Color : yellowish
Odor : characteristic
Odor Threshold : No data available

pH : No data available
Melting point/range : No data available

Boiling point/boiling range : 158 - 204 °C
Value refers to the solvent.

Flash point : 56.1 °C
Evaporation rate : No data available

Flammability (liquids) : Combustible Liquid

Upper explosion limit : ca. 5.5 %(V)
Value refers to the solvent.



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| | | |
|--|---|--|
| Lower explosion limit | : | ca. 0.7 %(V) Value refers to the solvent. |
| Vapor pressure | : | 1.61 hPa (20 °C) Value refers to the solvent. |
| Relative vapor density | : | No data available |
| Relative density | : | No data available |
| Density | : | 0.8 - 1.0 g/cm ³ |
| Solubility(ies) Water solubility | : | slightly soluble |
| Partition coefficient: n- octanol/water | : | No data available |
| Auto-ignition temperature | : | 240 °C Value refers to the solvent. |
| Decomposition temperature | : | No data available |
| Viscosity Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | No data available |
| Refractive index | : | No data available |

SECTION 10. STABILITY AND REACTIVITY

| | | |
|---|---|--|
| Reactivity | : | Stable at normal ambient temperature and pressure. |
| Chemical stability | : | No decomposition if stored normally. |
| Possibility of hazardous reac- tions | : | Vapors may form explosive mixture with air. |
| Conditions to avoid | : | Keep away from heat and sources of ignition. |
| Incompatible materials | : | Strong oxidizing agents |
| Hazardous decomposition products | : | No decomposition if used as directed. |

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

| | | |
|---------------------------|---|--|
| Acute oral toxicity | : | Acute toxicity estimate: 3,003 mg/kg Method: Calculation method |
| Acute inhalation toxicity | : | Acute toxicity estimate: 26.75 mg/l Exposure time: 4 h Test atmosphere: vapour |



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Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:

Barium Compounds:

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

LD50 (Rat): 1,480 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute inhalation toxicity : Remarks: Classification
Labelling according to EC Directives
Regulation (EC) No 1272/2008, Annex VI, Table 3.1
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.

Tridodecyl phosphite:

Acute oral toxicity : LD50 (Rat): 47,009 mg/kg
Remarks: Based on available data, the classification criteria
are not met.

Acute dermal toxicity : LD50 (Rat): 74,259 mg/kg
Remarks: Based on available data, the classification criteria
are not met.

Stoddard solvent:

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

LD50: > 15,000 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on available data, the classification criteria
are not met.

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

LC50 (Rat): > 13.1 mg/l
Exposure time: 4 h
Method: OECD Test Guideline 403
Remarks: Based on available data, the classification criteria
are not met.



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Acute dermal toxicity : Remarks: Read-across (Analogy)
LD50 (Rabbit): > 3,400 mg/kg
Method: OECD Test Guideline 402
Remarks: Based on available data, the classification criteria are not met.

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.

4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

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

Barium Compounds:

Remarks: Read-across (Analogy)

Species: EPISKIN Human Skin Model Test

Exposure time: 0.25 h

Method: Regulation (EC) No. 761/2009, B.46.

Result: not irritating

GLP: yes

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

Tridodecyl phosphite:



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Remarks: Causes skin irritation.

Stoddard solvent:

Remarks: Read-across (Analogy)

Method: OECD Test Guideline 404

Remarks: Prolonged skin contact may defat the skin and produce dermatitis.

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

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.

4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

Species: EPISKIN Human Skin Model Test

Method: Regulation (EC) No. 761/2009, B.46.

Result: not irritating

GLP: yes

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

Serious eye damage/eye irritation

Components:

Barium Compounds:

Remarks: Read-across (Analogy)

Species: Rabbit

Result: not irritating

Exposure time: 1 h

Method: OECD Test Guideline 405

GLP: yes

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

Tridodecyl phosphite:

Remarks: Causes serious eye irritation.

Stoddard solvent:

Remarks: Read-across (Analogy)

Result: slight irritation

Method: OECD Test Guideline 405

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



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Zinc Compounds:

Remarks: Read-across (Analogy)

Species: Rabbit

Result: irritating

Method: OECD Test Guideline 405

GLP: yes

4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

Species: in vitro assay

Result: not irritating

Method: OECD Test Guideline 437

GLP: yes

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

Respiratory or skin sensitisation

Components:

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

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

Tridodecyl phosphite:

Remarks: Not classified due to lack of data.

Stoddard solvent:

Remarks: Skin sensitisation

Read-across (Analogy)

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

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

Zinc Compounds:

Remarks: Skin sensitisation



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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.

4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

Remarks: Skin sensitisation

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

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

Germ cell mutagenicity

Components:

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
- : 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.

Tridodecyl phosphite:



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

Stoddard solvent:

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

Zinc Compounds:

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

4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

Genotoxicity in vitro : Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Species: Bacteria
Method: OECD Test Guideline 471
Result: negative
GLP: yes
: Test Type: In vitro gene mutation study in mammalian cells
Species: mouse lymphoma cells
Method: OECD Test Guideline 476
Result: negative
GLP: yes
: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
Species: Human lymphocytes
Method: OECD Test Guideline 473
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:

Barium Compounds:

Remarks: Read-across (Analogy)

Species: Rat

Application Route: Oral



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

Tridodecyl phosphite:

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

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

Stoddard solvent:

Remarks: Suspected of causing cancer.

Zinc Compounds:

Remarks: Read-across (Analogy)

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

4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

Remarks: Not classified due to lack of data.

Reproductive toxicity

Components:

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.

Tridodecyl phosphite:

Effects on fertility :

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

Stoddard solvent:

Effects on fertility :

Remarks: Read-across (Analogy)



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

Zinc Compounds:

Effects on fertility :

Remarks: Read-across (Analogy)

Remarks: Suspected of damaging the unborn child.

4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

Effects on fertility :

Remarks: Read-across (Analogy)

Test Type: Screening for reproductive/developmental toxicity
NOAEL: 1,000 mg/kg,
Method: OECD Test Guideline 421
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Effects on foetal development : Remarks: study scientifically unjustified

STOT - single exposure

Components:

Barium Compounds:

Remarks: Read-across (Analogy)

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

Tridodecyl phosphite:

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

Stoddard solvent:

Assessment: May cause drowsiness or dizziness.

Zinc Compounds:

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

4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

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



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Repeated dose toxicity

Components:

Barium Compounds:

Remarks: Read-across (Analogy)

Species: Rat

Application Route: Oral

Exposure time: 92 d

Remarks: Read-across (Analogy)

Species: Guinea pig

Application Route: Oral

Exposure time: 30 d

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

Tridodecyl phosphite:

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

Stoddard solvent:

Remarks: Read-across (Analogy)

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

Zinc Compounds:

Remarks: Read-across (Analogy)

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

4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

Species: Rat

NOAEL: 500 ppm in diet

Application Route: Oral

Exposure time: 13 w

Method: standardised international/national methodology

GLP: yes

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

Aspiration toxicity

Components:

Barium Compounds:

Not classified due to lack of data.

Stoddard solvent:

May be fatal if swallowed and enters airways.

Zinc Compounds:



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

4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

Not classified due to lack of data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

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
- 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



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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.

Tridodecyl phosphite:

Toxicity to fish : LC50: 2,888 mg/l
Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,778 mg/l
Exposure time: 48 h

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.

Stoddard solvent:

Ecotoxicology Assessment

Acute aquatic toxicity : No data available
Chronic aquatic toxicity : 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)



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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.

4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 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)): > 1,000 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

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



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

NOEC (Daphnia magna (Water flea)): 100 mg/l
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

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

EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Test Type: static test
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.

Persistence and degradability

Components:

Barium Compounds:

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

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

Tridodecyl phosphite:

Biodegradability : Remarks: No data available

Stoddard solvent:

Biodegradability : Remarks: Inherently biodegradable.

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



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4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

Biodegradability : aerobic
Result: Not readily biodegradable.
Biodegradation: 12 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

Bioaccumulative potential

Components:

Barium Compounds:

Bioaccumulation : Remarks: Read-across (Analogy)

Species: Lepomis macrochirus (Bluegill sunfish)
Concentration: 0,0744 mg/g wwt
Remarks: Bioaccumulation is unlikely.

Tridodecyl phosphite:

Bioaccumulation : Remarks: No data available

Stoddard solvent:

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

4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

Bioaccumulation : Bioconcentration factor (BCF): 1,064
Method: QSAR

Mobility in soil

Components:

Barium Compounds:

Mobility : Remarks: Read-across (Analogy)

Remarks: Predicted distribution to environmental compartments
Soil



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Stoddard solvent:

Mobility : Remarks: No data available

Zinc Compounds:

Mobility : Remarks: Not applicable

4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

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

Other adverse effects

Components:

Barium Compounds:

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

Tridodecyl phosphite:

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

Stoddard solvent:

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

Zinc Compounds:

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

4,4',4''-(1-methylpropanyl-3-ylidene)tris[6-tert-butyl-m-cresol]:

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



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and ensure conformity to local disposal regulations.

Contaminated packaging : Dispose in accordance with local, state and federal regulations.
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: NA 1993

UN/ID/NA number : NA 1993
Proper shipping name : COMBUSTIBLE LIQUID, N.O.S.
(Stoddard solvent, solution)
Class : 3
Packing group : III
Labels : Combustible Liquid
Marine pollutant : no

International Regulations

IATA-DGR

UN/ID No. : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(Stoddard solvent, solution)
Class : 3
Packing group : III
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 366

IMDG-Code

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(Stoddard solvent, solution)
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.



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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 | 40.2 |
| Zinc Compounds (N982) | Not Assigned | 9.2 |
| Glycol ethers (N230) | 111-90-0 | 6.9 |

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

| | |
|-------|--------|
| TSCA | listed |
| AICS | listed |
| ECL | listed |
| CHINA | listed |

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu-



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

Further information

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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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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