



**BAEROPAN MC 9109 KA/1**

Version 1.0

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**SECTION 1. IDENTIFICATION**

**Product identifier**

Trade name : **BAEROPAN MC 9109 KA/1**

**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**

Skin irritation : Category 2

Serious eye damage : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 1B

Specific target organ toxicity  
- single exposure : Category 3 (Respiratory system)

Combustible dust

**GHS label elements**

Hazard pictograms :

Signal word : Danger

Hazard statements : H315 Causes skin irritation.



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H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H360F May damage fertility.  
May form combustible dust mixtures in air.

Precautionary statements

:

**Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

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.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**Disposal:**

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

**Other hazards**

Dust can form an explosive mixture in air.



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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture  
Chemical nature : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Zinc compounds*	Trade Secret	< 20*
Calcium hydroxide	1305-62-0	>= 20*
Aluminium magnesium zinc carbonate hydroxide	169314-88-9	>= 25*
4,4'-Isopropylidene diphenol	80-05-7	< 10*
Dibenzoyl methane	120-46-7	< 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**

If inhaled : Move to fresh air.  
Call a physician immediately.  
Show this safety data sheet to the doctor in attendance.

In case of skin contact : Wash off with soap and plenty of water.

In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.  
Call a physician immediately.

If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
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 (CO<sub>2</sub>)  
Dry chemical  
Sand

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Smoke and fumes, toxic.

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



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for firefighters

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.  
Avoid dust formation.  
Provide adequate ventilation.  
Avoid contact with skin and eyes.  
For personal protection see section 8.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.
- Methods and materials for containment and cleaning up : Use mechanical handling equipment.  
Keep in suitable, closed containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling : Take precautionary measures against static discharges.  
Keep away from sources of ignition - No smoking.  
Avoid formation and buildup of dust.
- Conditions for safe storage : Store at room temperature in the original container.  
Keep in a dry place.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**



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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Calcium hydroxide	1305-62-0	PEL	15 mg/m <sup>3</sup> (total dust)	OSHA Z-1
		PEL	5 mg/m <sup>3</sup> (Respirable fraction)	OSHA Z-1
		TWA	5 mg/m <sup>3</sup>	NIOSH REL
		air 8 h	5 mg/m <sup>3</sup>	ACGIH
Zinc compounds	Trade Secret	PEL	15 mg/m <sup>3</sup> (total dust)	OSHA Z-1
		PEL	5 mg/m <sup>3</sup> (Respirable fraction)	OSHA Z-1
		TWA	10 mg/m <sup>3</sup> (total dust)	NIOSH REL
		TWA	5 mg/m <sup>3</sup> (Respirable fraction)	NIOSH REL
		TWA	10 mg/m <sup>3</sup> (Respirable dust)	ACGIH
		TWA	5 mg/m <sup>3</sup> (Respirable fraction)	ACGIH
		TWA	5 mg/m <sup>3</sup> (Respirable fraction)	ACGIH
General limits for air contaminants (PNOC)	Not Assigned	air 8 h (total dust)	15 mg/m <sup>3</sup>	OSHA Z-3
		air 8 h (Respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-3
		air 8 h (inhalable dust)	10 mg/m <sup>3</sup>	ACGIH
		air 8 h (Respirable fraction)	3 mg/m <sup>3</sup>	ACGIH

**Engineering measures** : Local exhaust

**Personal protective equipment**

Respiratory protection : P1 filter respirator for inert particles

Hand protection

Remarks : protective gloves acc. to EN 374, e.g. neoprene  
 Eye protection : Tightly fitting safety goggles  
 Skin and body protection : Long sleeved clothing  
 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.



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Shower or bathe at the end of working.  
Keep working clothes separately.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	powder
Color	:	off-white
Odor	:	slight
Odor Threshold	:	No data available
pH	:	No data available
Melting point/range	:	> 100 °C
Boiling point/boiling range	:	No data available
Flash point	:	>> 100 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Combustible Solids
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	No data available
Bulk density	:	No data available
Solubility(ies)	:	
Water solubility	:	partly soluble
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	No decomposition if stored normally.



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- Possibility of hazardous reactions : Risk of dust explosion.  
Aqueous dispersion reacts as an alkali.
- Conditions to avoid : Avoid dust formation.  
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: 5,000 mg/kg  
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

**Components:**

**Zinc compounds:**

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401
- Remarks: Read-across (Analogy)
- LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
Remarks: Based on available data, the classification criteria are not met.
- Acute inhalation toxicity : LC50 (Rat): > 200 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist
- LC50 (Rat): > 50 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Remarks: Based on available data, the classification criteria are not met.
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Remarks: Based on available data, the classification criteria are not met.

**Calcium hydroxide:**

- Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes



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

Acute inhalation toxicity : LC50 (Rat): > 6.04 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 436  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 (Rabbit): > 2,500 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Based on available data, the classification criteria are not met.

**Aluminium magnesium zinc carbonate hydroxide:**

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 : LC50 (Rat): > 5.17 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: standardised international/national methodology  
Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Read-across (Analogy)  
  
LD50 (Rat): > 2,000 mg/kg  
Remarks: Based on available data, the classification criteria are not met.

**4,4'-Isopropylidene diphenol:**

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

Acute inhalation toxicity : LC50 (Rat): > 0.170 mg/l  
Exposure time: 6 h  
Test atmosphere: dust/mist  
Method: standardised international/national methodology  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 (Rabbit): 3,000 mg/kg  
Method: standardised international/national methodology





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GLP: no  
Remarks: Based on available data, the classification criteria are not met.

**Dibenzoyl methane:**

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

Acute inhalation toxicity : Remarks: study scientifically unjustified

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

**Skin corrosion/irritation**

**Components:**

**Zinc compounds:**

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

**Calcium hydroxide:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Causes skin irritation.  
GLP: yes

**Aluminium magnesium zinc carbonate hydroxide:**

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

**4,4'-Isopropylidene diphenol:**

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

**Dibenzoyl methane:**



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

**Serious eye damage/eye irritation**

**Components:**

**Zinc compounds:**

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

**Calcium hydroxide:**

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

**Aluminium magnesium zinc carbonate hydroxide:**

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

**4,4'-Isopropylidene diphenol:**

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

Remarks: Classification  
Labelling according to EC Directives  
Regulation (EC) No 1272/2008, Annex VI, Table 3.1  
Category 1

**Dibenzoyl methane:**

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



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**Respiratory or skin sensitisation**

**Components:**

**Zinc compounds:**

Remarks: Skin sensitisation  
Patch test on human volunteers did not demonstrate sensitisation properties.  
Based on available data, the classification criteria are not met.

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

**Calcium hydroxide:**

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

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

**Aluminium magnesium zinc carbonate hydroxide:**

Test Type: Skin sensitisation  
Species: Guinea pig  
Method: standardised international/national methodology  
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.

**4,4'-Isopropylidene diphenol:**

Remarks: Skin sensitisation

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

Remarks: Classification  
Labelling according to EC Directives  
Regulation (EC) No 1272/2008, Annex VI, Table 3.1  
Skin sensitisation  
Category 1

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

**Dibenzoyl methane:**

Remarks: Skin sensitisation

Test Type: LLNA



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

Remarks: Respiratory sensitisation

Remarks: Not classified due to lack of data.

**Germ cell mutagenicity**

**Components:**

**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.

Genotoxicity in vivo : Remarks: Read-across (Analogy)  
Method: standardised international/national methodology  
Result: negative  
Remarks: Based on available data, the classification criteria are not met.

**Calcium hydroxide:**

Genotoxicity in vitro : Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Species: Bacteria  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes  
: Test Type: Chromosome aberration test in vitro  
Species: human cells  
Method: OECD Test Guideline 473  
Result: negative  
GLP: no  
: 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.

**Aluminium magnesium zinc carbonate hydroxide:**

Genotoxicity in vitro : Test Type: Mutagenicity (Salmonella typhimurium - reverse



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mutation assay)  
Species: Bacteria  
Method: standardised international/national methodology  
Result: negative

: Test Type: In vitro gene mutation study in mammalian cells  
Species: mouse lymphoma cells  
Method: standardised international/national methodology  
Result: negative

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)  
Species: Human lymphocytes  
Method: standardised international/national methodology  
Result: negative  
Remarks: Based on available data, the classification criteria are not met.

**4,4'-Isopropylidene diphenol:**

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

: Test Type: In vitro gene mutation study in mammalian cells  
Species: mouse lymphoma cells  
Result: negative  
GLP: no

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)  
Species: Chinese hamster ovary cells  
Result: negative  
GLP: no  
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: standardised international/national methodology  
Result: negative  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

**Dibenzoyl methane:**

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



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- : Test Type: In vitro gene mutation study in mammalian cells  
Species: mouse lymphoma cells  
Method: OECD Test Guideline 476  
Result: positive  
GLP: yes
  
- : Test Type: Mutagenicity (in vitro mammalian cytogenetic test)  
Species: CHL  
Method: OECD Test Guideline 487  
Result: positive  
GLP: yes  
Remarks: Based on available data, the classification criteria are not met.

**Carcinogenicity**

**Product:**

Remarks: This product contains no known or suspected carcinogens listed by IARC, NTP or OSHA at or above reportable quantities.

**Components:**

**Zinc compounds:**

Remarks: Read-across (Analogy)

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

**Calcium hydroxide:**

Remarks: Read-across (Analogy)

Species: Rat

Application Route: Oral

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

**Aluminium magnesium zinc carbonate hydroxide:**

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

**4,4'-Isopropylidene diphenol:**

Species: rat / mouse

Application Route: Oral

GLP: no

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

**Dibenzoyl methane:**

Remarks: Not classified due to lack of data.



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**Reproductive toxicity**

**Components:**

**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.

**Calcium hydroxide:**

Effects on fertility :

Remarks: Read-across (Analogy)

Species: Mouse  
Application Route: Oral

GLP: no  
Remarks: Based on available data, the classification criteria are not met.

Effects on foetal development :

Remarks: Read-across (Analogy)  
Species: Rat  
Application Route: Oral  
Method: OECD Test Guideline 414  
GLP: no  
Remarks: Read-across (Analogy)  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 414  
GLP: no  
Remarks: Based on available data, the classification criteria are not met.

**Aluminium magnesium zinc carbonate hydroxide:**

Effects on fertility :

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

Effects on foetal development :

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

**4,4'-Isopropylidene diphenol:**



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Effects on fertility

:

Test Type: Two-generation reproductive toxicity  
Species: Mouse  
Application Route: Oral

Method: OECD Test Guideline 416  
GLP: yes

Test Type: Two-generation reproductive toxicity  
Species: Rat  
Application Route: Oral

Method: OECD Test Guideline 416  
GLP: yes

Remarks: Classification

Remarks: Labelling according to EC Directives

Remarks: Regulation (EC) No 1272/2008, Annex VI, Table 3.1

Remarks: Reproductive toxicity

Remarks: Category 1B

**Dibenzoyl methane:**

Effects on fertility

:

Remarks: Not classified due to lack of data.

Effects on foetal development

:

Remarks: Not classified due to lack of data.

**STOT - single exposure**

**Components:**

**Zinc compounds:**

Remarks: Read-across (Analogy)

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

**Calcium hydroxide:**

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.





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**Aluminium magnesium zinc carbonate hydroxide:**

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

**4,4'-Isopropylidene diphenol:**

Assessment: May cause respiratory irritation.

**Dibenzoyl methane:**

Remarks: Not classified due to lack of data.

**Repeated dose toxicity**

**Components:**

**Zinc compounds:**

Remarks: Read-across (Analogy)

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

**Calcium hydroxide:**

Species: Rat

NOEC: 0.107 mg/l

Application Route: Inhalation

Exposure time: 14d

Method: OECD Test Guideline 412

GLP: yes

Symptoms: Local effects

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

**Aluminium magnesium zinc carbonate hydroxide:**

Species: Rat

NOAEL: 1,000 mg/kg

Application Route: Oral

Exposure time: 28 d

Method: standardised international/national methodology

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

**4,4'-Isopropylidene diphenol:**

Species: rat / mouse

NOAEL: 50 mg/kg

Application Route: Oral

Exposure time: two generation cycles

Method: OECD Test Guideline 416

GLP: yes

Species: Rat

NOAEL: 200 mg/kg

Application Route: Oral

Exposure time: 28 days

Method: OECD Test Guideline 407



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GLP: yes

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

Species: Rat

NOAEL: 0.01 mg/l

Application Route: Inhalation

Exposure time: 13 weeks

GLP: yes

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

**Dibenzoyl methane:**

Species: Rat

NOAEL: 62.5 mg/kg

Application Route: Oral

Exposure time: 90 d

Method: OECD Test Guideline 408

GLP: yes

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

**Aspiration toxicity**

**Components:**

**Zinc compounds:**

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

**Calcium hydroxide:**

Not classified due to lack of data.

**Aluminium magnesium zinc carbonate hydroxide:**

Not classified due to lack of data.

**4,4'-Isopropylidene diphenol:**

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

**Dibenzoyl methane:**

Not classified due to lack of data.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

**Zinc compounds:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10,000 mg/l



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Exposure time: 96 h  
Test Type: semi-static test  
Method: Directive 67/548/EEC, Annex V, C.1.

Remarks: Read-across (Analogy)

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

Remarks: Read-across (Analogy)

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

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Remarks: Read-across (Analogy)

LC50 (Ceriodaphnia dubia (water flea)): 0.147 - > 0,53 mg Zn/l

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 19.3 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: semi-static test  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Value referred to the Water accumulated fraction (WAF).

EC10 (Pseudokirchneriella subcapitata (green algae)): 3.31 mg/l  
Exposure time: 72 h  
Test Type: semi-static test  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Value referred to the Water accumulated fraction (WAF).

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



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	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	: NOEC (Photobacterium phosphoreum): 1,560 mg/l Exposure time: 0.5 h Test Type: static test Method: DIN 38412 T 34 GLP:
	GLP: Remarks: Read-across (Analogy)
	EC50 (activated sludge): 5,2 mg Zn/l Exposure time: 3 h Test Type: static test Method: OECD Test Guideline 209 GLP: no
<b>Calcium hydroxide:</b>	
Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 50.6 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes
	LC50 (Gasterosteus aculeatus (threespine stickleback)): 457 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)): 49.1 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
	LC50 (Crangon septemspinosa): 158 mg/l Exposure time: 96 h



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Test Type: static test

Toxicity to algae : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 184.57 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (*Pseudokirchneriella subcapitata* (green algae)): 48 mg/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) : NOEC (*Crangon septemspinosa*): 32 mg/l  
Exposure time: 14 d  
Test Type: semi-static test  
Method: standardised international/national methodology

Toxicity to bacteria : EC50 (activated sludge): 300.4 mg/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.

**Aluminium magnesium zinc carbonate hydroxide:**

Toxicity to fish : LC50 (*Cyprinus carpio* (Carp)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

LC50 (*Cyprinodon variegatus* (sheepshead minnow)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 100 mg/l  
Exposure time: 48 h



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Test Type: static test  
Method: OECD Test Guideline 201

EC50 (Skeletonema costatum (marine diatom)): > 180 mg/l  
Exposure time: 48 h  
Test Type: Growth inhibition  
Method: ISO 10253

Toxicity to bacteria : IC50 (activated sludge): > 100 mg/l  
Exposure time: 0.5 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

**Ecotoxicology Assessment**

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

Chronic aquatic toxicity : Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, May cause long lasting harmful effects to aquatic life.

**4,4'-Isopropylidene diphenol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4.6 - 4.7 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: yes

LC50 (Cyprinodon variegatus (sheepshead minnow)): 11 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 10.2 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: standardised international/national methodology  
GLP: yes

EC50 (Americamysis bahia (Mysidopsis bahia)): 1.1 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: standardised international/national methodology  
GLP: yes

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 2.5 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: standardised international/national methodology  
GLP: yes



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	<p>EC50 (<i>Skeletonema costatum</i> (marine diatom)): 1.1 mg/l Exposure time: 96 h Test Type: static test Method: standardised international/national methodology GLP: yes</p>
	<p>NOEC (<i>Lemna gibba</i>): 7.8 mg/l Exposure time: 7 d Test Type: semi-static test Method: OECD Test Guideline 221 GLP: yes</p>
Toxicity to fish (Chronic toxicity)	<p>: NOEC (<i>Pimephales promelas</i> (fathead minnow)): 0.016 mg/l Exposure time: 444 d Test Type: flow-through test Method: standardised international/national methodology GLP: yes</p> <p>NOEC (<i>Cyprinodon variegatus</i> (sheepshead minnow)): 0.066 mg/l Exposure time: 116 d Test Type: flow-through test Method: standardised international/national methodology GLP: yes</p> <p>NOEC (<i>Pimephales promelas</i> (fathead minnow)): 0.640 mg/l Exposure time: 36 d Test Type: flow-through test Method: OECD Test Guideline 210 GLP: yes</p> <p>NOEC (<i>Pimephales promelas</i> (fathead minnow)): 0.160 mg/l Exposure time: 164 d Test Type: flow-through test Method: standardised international/national methodology GLP: yes</p>
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	<p>: NOEC (<i>Marisa cornuarietis</i>): 0.025 mg/l Exposure time: 328 d Test Type: flow-through test GLP: yes</p> <p>NOEC (<i>Brachionus calyciflorus</i>): 1.8 mg/l Exposure time: 48 h Test Type: static test Method: standardised international/national methodology GLP: yes</p> <p>NOEC (<i>Americamysis bahia</i> (<i>Mysidopsis bahia</i>)): 0.170 mg/l Exposure time: 28 d Test Type: flow-through test Method: standardised international/national methodology GLP: yes</p>



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NOEC (Daphnia magna (Water flea)): > 3.16 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

Toxicity to bacteria : IC50 (Pseudomonas fluorescens): 54.5 mg/l  
Exposure time: 16 h  
Test Type: Growth inhibition  
Method: standardised international/national methodology  
GLP:

EC10 (Pseudomonas putida): > 320 mg/l  
Exposure time: 18 h  
Test Type: static test  
Method: DIN 38412  
GLP:

**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.

**Dibenzoyl methane:**

Toxicity to fish : LC50: 11.313 mg/l  
Exposure time: 96 h  
Method: QSAR

Toxicity to daphnia and other aquatic invertebrates : LC50: 7.519 mg/l  
Exposure time: 48 h  
Method: QSAR

Toxicity to algae : 2.68 mg/l  
Exposure time: 96 h  
Method: QSAR

**Ecotoxicology Assessment**

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

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

**Persistence and degradability**

**Components:**

**Zinc compounds:**

Biodegradability : Ready biodegradability  
Result: Readily biodegradable.  
Biodegradation: 93 %  
Exposure time: 28 d  
Method: closed bottle test according to OECD 301 D





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Remarks: Read-across (Analogy)

Ready biodegradability  
Result: Readily biodegradable.  
Biodegradation: 72 %  
Exposure time: 29 d  
Method: OECD Test Guideline 301

**Calcium hydroxide:**

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

**Aluminium magnesium zinc carbonate hydroxide:**

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

**4,4'-Isopropylidene diphenol:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 89 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

aerobic  
Inoculum: Fresh water sediment  
Result: Readily biodegradable.  
Lag phase: 2 - 8 d  
Method: standardised international/national methodology  
GLP: yes

aerobic  
Inoculum: Soil  
Result: Readily biodegradable.  
Method: standardised international/national methodology  
GLP: yes

**Dibenzoyl methane:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 89 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes



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**Bioaccumulative potential**

**Components:**

**Zinc compounds:**

Bioaccumulation : Remarks: Not applicable

**Calcium hydroxide:**

Bioaccumulation : Remarks: Not applicable

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

**Aluminium magnesium zinc carbonate hydroxide:**

Bioaccumulation : Remarks: No data available

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

**4,4'-Isopropylidene diphenol:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF):  $\leq 67$   
Exposure time: 42 d  
Method: standardised international/national methodology  
Remarks: Accumulation in aquatic organisms is unlikely.

**Dibenzoyl methane:**

Bioaccumulation : Remarks: study scientifically unjustified

Partition coefficient: n-octanol/water : log Pow:  $< 3$

**Mobility in soil**

**Components:**

**Zinc compounds:**

Mobility : Remarks: According to experience not expected

**Calcium hydroxide:**

Mobility : Remarks: Not applicable

**Aluminium magnesium zinc carbonate hydroxide:**

Mobility : Remarks: No data available

**4,4'-Isopropylidene diphenol:**

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



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Water

**Dibenzoyl methane:**

Mobility : Remarks: No data available

**Other adverse effects**

**Product:**

Additional ecological information : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Avoid release to the environment.

**Components:**

**Zinc compounds:**

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

**Calcium hydroxide:**

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

**Aluminium magnesium zinc carbonate hydroxide:**

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

**4,4'-Isopropylidene diphenol:**

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

**Dibenzoyl methane:**

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

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**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.



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Contaminated packaging : Empty containers must be handled with care due to product residue.

**SECTION 14. TRANSPORT INFORMATION**

**National Regulations**

**DOT**

Not regulated as a dangerous good

**International Regulations**

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

**SECTION 15. REGULATORY INFORMATION**

**SARA 313**

: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Components	CAS-No.	Wt.
Zinc Compounds (N982)	Not Assigned	66.0
4,4'-Isopropylidene diphenol	80-05-7	3.0

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

TSCA	listed
DSL	listed
AICS	listed
ECL	listed
CHINA	listed
EINECS	complies with the requirements
ENCS	listed
PICCS	listed



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**SECTION 16. OTHER INFORMATION**

**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

**HMIS III:**

<b>HEALTH</b>	<b>3*</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

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



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