



**BAEROPAN MC 90602 KA/1**

Version 1.0

Revision Date 15.06.2015

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name : **BAEROPAN MC 90602 KA/1**  
Other means of Identification : **Solid Calcium Zinc Compound**

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

Use of the Substance/Mixture : Manufacture of plastics products  
Polymer additive  
Stabilizer  
Restrictions on Use : None known

**1.3 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, 330-602-1531 or -1530  
Night 513-207-1620 or 513-604-2327  
E-mail address : Hotline.PS@baerlocher.com  
Responsible/issuing person : Product Safety Department

**1.4 Emergency telephone number (0 - 24 h)**

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

**2. Hazards identification**

**2.1 Classification of the substance or mixture**

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Sensitising	R43: May cause sensitisation by skin contact.
Irritant	R41: Risk of serious damage to eyes.
Combustible dust	R37/38: Irritating to respiratory system and skin. : May form combustible dust concentrations in air.



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**2.2 Label elements**

Hazard pictograms



Signal word

: Danger

Hazard statements

: H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
May form combustible dust concentrations in air.

Precautionary statements

: **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P280 Wear eye protection/ face protection.  
P280 Wear protective gloves.  
**Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/ physician.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

**2.3 Other hazards**

May produce an allergic reaction.

**3. Composition/information on ingredients**

**3.2 Mixtures**

Chemical nature : Preparation containing zinc salts.

**Hazardous components**

Chemical Name	CAS-No.	Concentration [%]
Zinc compounds	Trade Secret*	$\geq 20^*$
Calcium hydroxide	1305-62-0	$\geq 20^*$
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.



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**4. First aid measures**

**4.1 Description of first aid measures**

- If inhaled : Move to fresh air.
- In case of skin contact : Wash off with soap and plenty of water.
- In case of eye contact : Rinse opened eye for several minutes under running water.  
Consult a physician.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Consult a doctor and show this safety datasheet.

**4.2 Most important symptoms and effects, both acute and delayed**

- Symptoms : No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment : Treat symptomatically.
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**5. Firefighting measures**

**5.1 Extinguishing media**

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Sand

- Unsuitable extinguishing media : High volume water jet

**5.2 Special hazards arising from the substance or mixture**

- Specific hazards during firefighting : Smoke and fumes, toxic.

**5.3 Advice for firefighters**

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

**6.1 Personal precautions, protective equipment and emergency procedures**

- Personal precautions : Remove all sources of ignition.



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Avoid dust formation.  
Provide adequate ventilation.  
Avoid contact with skin and eyes.  
Use personal protective equipment (see Section 8).

**6.2 Environmental precautions**

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up : Use mechanical handling equipment.  
Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For personal protection see section 8.

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**7. Handling and storage**

**7.1 Precautions for safe handling**

Advice on safe handling : Take precautionary measures against static discharges.  
Keep away from sources of ignition - No smoking.  
Avoid formation and buildup of dust.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Store at room temperature in the original container.  
Keep in a dry place.

German storage class : 11 Combustible Solids

**7.3 Specific end use(s)**

: Consult the technical guidelines for the use of this substance/mixture.



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**8. Exposure controls/personal protection**

**8.1 Control parameters**

Substance	CAS No.	Regulatory Limits			Recommended Limits	
		OSHA PEL		Cal/OSHA PEL	NIOSH REL	ACGIH TLV
		ppm	mg/m <sup>3</sup>	8-hour TWA (ST) STEL (C) Ceiling	Up to 10-hour TWA (ST) STEL (C) Ceiling	8-hour TWA (ST) STEL (C) Ceiling
Calcium hydroxide Total dust Respirable fraction	1305-62-0		15 5	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Dibenzoyl methane Total dust Respirable fraction	120-46-7		15 5	10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	-	10 mg/m <sup>3</sup> 3 mg/m <sup>3</sup>
Zinc compounds Total dust Respirable fraction	Trade Secret*		15 5	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Particulates Not Otherwise Regulated (PNOR) Total dust Respirable fraction			15 5	10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	-	IHL: 10 mg/m <sup>3</sup> 3 mg/m <sup>3</sup>

**8.2 Exposure controls**

**Engineering measures**

Local exhaust

**Personal protective equipment**

Respiratory protection : P1 filter respirator for inert particles.  
Necessary, in case of dust formation.



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- Hand protection : protective gloves acc. to EN 374, e.g. neoprene
- Eye protection : Safety glasses
- Skin and body protection : Long sleeved clothing
- 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.
- Protective measures : Static dissipative shoes are recommended for use in environments that may not have sufficient ventilation and engineering controls to prevent incidental releases of airborne concentrations of the combustible dust to present an explosion hazard from static electrical discharge from personnel.
- Environmental exposure controls**
- General advice : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

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**9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

- Appearance : powder
- Colour : off-white
- Odour : slight
- pH : no data available
- Melting point/range : > 100 °C
- Flash point : >> 100 °C
- Upper explosion limit : no data available
- Vapour pressure : no data available
- Density : no data available
- Water solubility : partly soluble
- Partition coefficient: n-octanol/water : no data available
- Auto-ignition temperature : no data available
- Ignition temperature : no data available
- Boiling point/boiling range : no data available
- Lower explosion limit : no data available



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Viscosity, dynamic : no data available  
Viscosity, kinematic : no data available  
Odor Threshold : no data available  
Evaporation Rate : no data available  
Flammability : no data available  
Vapor Density : no data available  
Decomposition temperature : no data available

**9.2 Other information**

No data available

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**10. Stability and reactivity**

**10.1 Reactivity**

Stable at normal ambient temperature and pressure.

**10.2 Chemical stability**

No decomposition if stored normally.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Risk of dust explosion.  
Aqueous dispersion reacts as an alkali.

**10.4 Conditions to avoid**

Conditions to avoid : Avoid dust formation.  
Sources of ignition

**10.5 Incompatible materials**

Materials to avoid : Strong oxidizing agents

**10.6 Hazardous decomposition products**

Hazardous decomposition products : No decomposition if used as directed.

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**11. Toxicological information**

**11.1 Information on toxicological effects**

**Components:**

**Calcium hydroxide :**

Acute oral toxicity : LD50: > 2.000 mg/kg, rat, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.



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Acute inhalation toxicity	: Not classified due to lack of data.
Acute dermal toxicity	: LD50: > 2.500 mg/kg, rabbit, OECD Test Guideline 402, Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: rabbit, Result: irritating, OECD Test Guideline 404, GLP: yes
Serious eye damage/eye irritation	: rabbit, Result: Risk of serious damage to eyes., OECD Test Guideline 405, GLP: yes
Respiratory or skin sensitisation	: Skin sensitisation, Not classified due to lack of data.  : Respiratory sensitisation, Not classified due to lack of data.
Germ cell mutagenicity	
Genotoxicity in vitro	: Genotoxicity in vitro, Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes  : Chromosome aberration test in vitro, human cells, Result: negative, GLP: no, Based on available data, the classification criteria are not met.
Carcinogenicity	: Read-across (Analogy)  : rat, Oral, Based on available data, the classification criteria are not met.
Reproductive toxicity	: Read-across (Analogy)  : mouse, Oral, GLP: no, Based on available data, the classification criteria are not met.
Teratogenicity	: Read-across (Analogy)  : rat, Oral, standardised international/national methodology, GLP: no, Based on available data, the classification criteria are not met.  : Read-across (Analogy)  : mouse, Oral, standardised international/national methodology, GLP: no, Based on available data, the classification criteria are not met.
STOT - single exposure	: Exposure routes: Inhalation Target Organs: Respiratory Tract Assessment: May cause respiratory irritation.
Aspiration toxicity	: Not classified due to lack of data.
Further information	: CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.  : Likely route of exposure, Ingestion, Inhalation, Skin contact





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**Dibenzoyl methane :**

- Acute oral toxicity : LD50: > 2.000 mg/kg, rat, OECD Test Guideline 423, GLP: yes, Based on available data, the classification criteria are not met.
- Acute inhalation toxicity : study scientifically unjustified
- Acute dermal toxicity : LD50: > 2.000 mg/kg, rat, OECD Test Guideline 402, GLP: yes
- Skin corrosion/irritation : in vitro assay, Result: not irritating, OECD Test Guideline 439, GLP: yes, Based on available data, the classification criteria are not met.
- Serious eye damage/eye irritation : rabbit, Result: not irritating, OECD Test Guideline 405, Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation : Skin sensitisation
  - : LLNA, mouse, Result: Sensitising, OECD Test Guideline 429, GLP: yes
  - : Respiratory sensitisation
  - : Not classified due to lack of data.
- Germ cell mutagenicity
- Genotoxicity in vitro : Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
  - : In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: positive, OECD Test Guideline 476, GLP: yes
  - : Mutagenicity (in vitro mammalian cytogenetic test), CHL, Result: positive, OECD Test Guideline 487, GLP: yes, Based on available data, the classification criteria are not met.
- Carcinogenicity : Not classified due to lack of data.
- Reproductive toxicity : Not classified due to lack of data.
- Teratogenicity : Not classified due to lack of data.
- STOT - single exposure : Remarks: Not classified due to lack of data.
- STOT - repeated exposure : Not classified due to lack of data.
- Aspiration toxicity : Not classified due to lack of data.
- Further information : CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.
  - : Likely route of exposure, Inhalation, Ingestion, Skin contact



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**11.2 Carcinogenicity**

Contains no known or suspected carcinogens listed by IARC, NTP or OSHA at or above reportable quantities.

**12. Ecological information**

**12.1 Toxicity**

**Components:**

**Calcium hydroxide :**

- Toxicity to fish : LC50: 50,6 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout), static test, OECD Test Guideline 203, GLP: yes
- : LC50: 457 mg/l, 96 h, Marine species, static test, standardised international/national methodology
- Toxicity to daphnia and other aquatic invertebrates : EC50: 49,1 mg/l, 48 h, Daphnia magna (Water flea), static test, OECD Test Guideline 202, GLP: yes
- : LC50: 158 mg/l, 96 h, Crangon septemspinosa, static test
- Toxicity to algae : EC50: 184,57 mg/l, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes
- : NOEC: 48 mg/l, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes
- Toxicity to bacteria : EC50: 300,4 mg/l, 3 h, activated sludge, Respiration inhibition, OECD Test Guideline 209, GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 32 mg/l, 14 d, Crangon septemspinosa, semi-static test, standardised international/national methodology

**Ecotoxicology Assessment**

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

**Dibenzoyl methane :**

- Toxicity to fish : LC50: 11,313 mg/l, 96 h, QSAR
- Toxicity to daphnia and other aquatic invertebrates : LC50: 7,519 mg/l, 48 h, QSAR
- Toxicity to algae : 2,68 mg/l, 96 h, QSAR

**Ecotoxicology Assessment**

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



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

**12.2 Persistence and degradability**

**Components:**

**Calcium hydroxide :**

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

**Dibenzoyl methane :**

Biodegradability : aerobic, 89 %, Result: Readily biodegradable., Exposure time: 28 d, activated sludge, ISO 9439

**12.3 Bioaccumulative potential**

**Components:**

**Calcium hydroxide :**

Bioaccumulation :  
not applicable

**Dibenzoyl methane :**

Bioaccumulation :  
study scientifically unjustified

**12.4 Mobility in soil**

**Components:**

**Calcium hydroxide :**

Mobility : not applicable

**Dibenzoyl methane :**

Mobility : no data available

**12.5 Results of PBT and vPvB assessment**

**Components:**

**Calcium hydroxide :**

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

**Dibenzoyl methane :**

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

**12.6 Other adverse effects**

**Calcium hydroxide :**

Further information : No information available.

**Dibenzoyl methane :**

Further information : No information available.

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**13. Disposal considerations**

**13.1 Waste treatment methods**



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Product : Dispose of contents/container in accordance with local/regional/national/international/regulations.

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**14. Transport information**

**14.1 UN number**

**DOT**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.2 Proper shipping name**

**DOT**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.3 Transport hazard class**

**DOT**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.4 Packing group**

**DOT**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.5 Environmental hazards**

**DOT**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.6 Special precautions for user**

See this safety data sheet chapter 6. - 8.



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

Remarks : No transport according to Annex II of MARPOL 73/78 and the IBC Code

**15. Regulatory information**

**Section 313 Supplier Notification (USA)**

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:

Component	CAS/313 Category Code	Wt (%)
Zinc compounds	N982	21.5

**National Legislation:**

**Registration Status:**

EINECS	: listed
TSCA	: listed
DSL	: listed
AICS	: listed
ENCS	: listed
ECL	: listed
PICCS	: listed
CHINA	: listed

**16. Other information**

**Date of Preparation or last change: 15.06.2015**

**HMIS Rating (USA)**

Health	: 2
Flammability	: 1
Reactivity	: 1
Personal Protection	: E



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HTS # : 3812.30.9000

**Full text of R-phrases**

R37/38 Irritating to respiratory system and skin.  
R41 Risk of serious damage to eyes.  
R43 May cause sensitisation by skin contact.

**Full text of H-Statements**

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

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.