



**BAEROPAN MC 90249 KA/3**

Version 1.1

Revision Date 02/17/2022

**SECTION 1. IDENTIFICATION**

**Product identifier**

Trade name : **BAEROPAN MC 90249 KA/3**

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

Use of the Sub-  
stance/Mixture : Manufacture of plastics products  
Polymer additive  
Stabilizer

Recommended restrictions  
on use : None known.

**Details of the supplier of the safety data sheet**

Company : Baerlocher Production USA LLC  
5890 Highland Ridge Drive  
Cincinnati, OH 45232  
Telephone : 513-604-2327  
E-mail address : Hotline.PS@baerlocher.com  
Responsible/issuing person : Product Safety Department

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

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

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Skin sensitisation : Category 1  
Combustible dust : Category 1

**GHS label elements**

Hazard pictograms :

Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.  
May form combustible dust concentrations in air.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/



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attention.  
P363 Wash contaminated clothing before reuse.

**Disposal:**

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

**Other hazards**

Dust can form an explosive mixture in air.

### 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*
1,3-Diphenylpropane-1,3-dione	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.

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

In case of eye contact : Rinse with plenty of water.

If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Get medical advice/ attention if you feel unwell.  
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>)



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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.

**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.  
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.

**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.

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

**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Paraffin wax (fume)	8002-74-2	TWA	2 mg/m <sup>3</sup>	NIOSH REL
		TWA	2 mg/m <sup>3</sup>	ACGIH TLV
Zinc compounds	Trade Secret	PEL	15 mg/m <sup>3</sup> (total dust)	OSHA Z-1



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		PEL	5 mg/m3 (Respirable fraction)	OSHA Z-1
		TWA	10 mg/m3 (total dust)	NIOSH REL
		TWA	5 mg/m3 (Respirable fraction)	NIOSH REL
		TWA	10 mg/m3 (Respirable dust)	ACGIH
		TWA	5 mg/m3 (Respirable fraction)	ACGIH
General limits for air contaminants (PNOC)	Not Assigned	air 8 h (total dust)	15 mg/m3	OSHA Z-3
		air 8 h (Respirable fraction)	5 mg/m3	OSHA Z-3
		air 8 h (inhalable dust)	10 mg/m3	ACGIH
		air 8 h (Respirable fraction)	3 mg/m3	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 : Safety glasses

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.  
Shower or bathe at the end of working.  
Keep working clothes separately.  
Handle in accordance with good industrial hygiene and safety practice.  
Regular cleaning of equipment, work area and clothing.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : powder

Color : off-white

Odor : slight



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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	:	practically insoluble
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

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	No decomposition if stored normally.
Possibility of hazardous reactions	:	Risk of dust explosion.
Conditions to avoid	:	Avoid dust formation.



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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.

**1,3-Diphenylpropane-1,3-dione:**

- 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.



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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.

**1,3-Diphenylpropane-1,3-dione:**

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.

**1,3-Diphenylpropane-1,3-dione:**

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

**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.



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**1,3-Diphenylpropane-1,3-dione:**

Remarks: Skin sensitisation

Test Type: LLNA  
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.

**1,3-Diphenylpropane-1,3-dione:**

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: 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





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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.

**1,3-Diphenylpropane-1,3-dione:**

Remarks: Not classified due to lack of data.

**Reproductive toxicity**

**Components:**

**Zinc compounds:**

Effects on fertility : Remarks: Read-across (Analogy)

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

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.

Remarks: Read-across (Analogy)

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

**1,3-Diphenylpropane-1,3-dione:**

Effects on fertility : Remarks: Not classified due to lack of data.

Remarks: Not classified due to lack of data.

Effects on foetal development : Remarks: Not classified due to lack of data.



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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.

**1,3-Diphenylpropane-1,3-dione:**

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.

**1,3-Diphenylpropane-1,3-dione:**

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.

**1,3-Diphenylpropane-1,3-dione:**

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  
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



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	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  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>1,3-Diphenylpropane-1,3-dione:</b>	
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



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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.

**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

Remarks: Read-across (Analogy)

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

**1,3-Diphenylpropane-1,3-dione:**

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

**Bioaccumulative potential**

**Components:**

**Zinc compounds:**

Bioaccumulation : Remarks: Not applicable

**1,3-Diphenylpropane-1,3-dione:**

Bioaccumulation : Remarks: study scientifically unjustified

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

**Mobility in soil**

**Components:**

**Zinc compounds:**



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Mobility : Remarks: According to experience not expected

**1,3-Diphenylpropane-1,3-dione:**

Mobility : Remarks: No data available

**Other adverse effects**

**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.

**1,3-Diphenylpropane-1,3-dione:**

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.

Dispose in accordance with local, state and federal regulations.

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

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**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.



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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.
Zinc Compounds (N982)	Not Assigned	7.0

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

TSCA	listed
EINECS	not reviewed
DSL	not reviewed
AICS	not reviewed
ECL	Not listed
PICCS	Not listed
CHINA	not reviewed
ENCS	not reviewed

**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;



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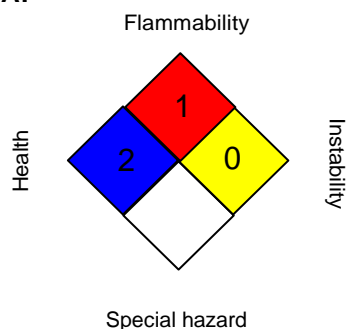
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NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - 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 ; vP vB - Very Persistent and Very Bioaccumulative

**Further information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>2</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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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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