

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: 5/14/2019 Version: 17 Language: en-US Date of first version: 2/6/2008

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# Airfill 2 Cream Hardener

Material number 1077

# 1. Product and company identification

#### **Product identifier**

Trade name: Airfill 2 Cream Hardener

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

General use: Curing agent.

Reserved for industrial and professional use.

### Details of the supplier of the safety data sheet

Company name: Airtech International, Inc. Airtech Europe Sarl

5700 Skylab Road Zone industrielle Haneboesch

Huntington Beach, CA 92647 L-4562 Differdange

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Telephone: +1 714.899.8100
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E-mail: airtech.asia@airtechasia.com.cn

#### **Emergency phone number**

CHEMTREC EMERGENCY PHONE: Within USA/Canada: 1-(800)424-9300

International: +1 703-741-5970

### 2. Hazards identification

### **Emergency overview**

Appearance: Physical state at 68 °F and 101.3 kPa: solid

Form: paste

Color: white, red, black or blue

Odor: weak

Classification: Organic Peroxide - Category E; Eye Irritation - Category 2A; Sensitization - skin -

Category 1; Aquatic toxicity - acute - Category 1; Aquatic toxicity - chronic -

Category 1;

Hazard symbols:







Signal word: Warning



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Hazard statements: Heating may cause a fire.

May cause an allergic skin reaction. Causes serious eye irritation.

Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep only in original container.

Keep cool.

Ground/bond container and receiving equipment. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands and face thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection.

IF ON SKIN: Wash with plenty of water/soap.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see ' First aid ' on this label).

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

In case of fire: Use ... to extinguish.

Collect spillage.

Store in a well-ventilated place.

Protect from sunlight.

Store at temperatures not exceeding 32 °C/77 °F.

Store separately.

Dispose of contents/container to hazardous or special waste collection point.

#### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

### Hazards not otherwise classified

Hazardous, self-accelerating decomposition reaction is possible. Under certain conditions an explosion or fire may occur as a result of direct contact with incompatible substances or through thermal decomposition.

see section 11: Toxicological information

# 3. Composition / Information on ingredients

Chemical characterization:

Mixture of the substances listed below with non-hazardous additions



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Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 94-36-0	Dibenzoyl peroxide	40 - 50 %	Organic Peroxide - Category B. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.
CAS 131298-44-7	Benzoic acid, C9-11- branched alkyl esters	10 - 25 %	Acute Toxicity - inhalative - Category 4.
CAS 557-05-1	Zinc distearate	5 - 10 %	Aquatic toxicity - acute - Category 1.

### 4. First aid measures

General information: In case of accident or if you feel unwell, seek medical advice immediately.

Seek medical assistance when anyone has symptoms apparently due to inhalation,

swallowing or contact with skin or eyes.

In case of inhalation: Move victim to fresh air. Seek medical treatment in case of troubles.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Take off

contaminated clothing and wash it before reuse. In case of skin reactions, consult a

physician.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

After swallowing: Never give anything by mouth to an unconscious person.

Rinse mouth. Do not induce vomiting without medical assistance.

Seek medical attention.

#### Most important symptoms/effects, acute and delayed

May cause an allergic skin reaction. Causes serious eye irritation.

# Information to physician

Treat symptomatically.

# 5. Fire fighting measures

Flash point/flash point range:

201.2 °F (c.c.)

Auto-ignition temperature:

No data available

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, dry chemical powder and carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

### Specific hazards arising from the chemical

Heating may cause a fire. Harmful and/or toxic vapors may be produced in the event of thermal decomposition.

In case of fire may be liberated: Smoke, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.



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Additional information:

Cool endangered containers with water spray and, if possible, remove from danger zone. In case of fire and/or explosion do not breathe fumes. Use a water fog to control vapors. Do not allow fire water to penetrate into surface or ground water. Product enhances combustion. Prevent subsequent re-ignition with abundant quantities of water.

### 6. Accidental release measures

Personal precautions: Eliminate all ignition sources if safe to do so. Avoid contact with skin, eyes, and clothing.

Do not inhale substance. Wear appropriate protective equipment. Take off contaminated

clothing and wash it before reuse.

Keep unprotected people away. Ensure adequate ventilation, especially in confined areas.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains.

If the product contaminates lakes, rivers or sewages, inform competent authorities in

accordance with local regulations.

Methods for clean-up: Plug leak if safely possible. Take up with non-flammable, liquid binding material (e.g.

sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions. Thoroughly clean the contaminated area with water. Dispose of waste

according to applicable legislation.

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.

# 7. Handling and storage

### Handling

Advices on safe handling: Avoid formation of flammable and explosive vapour concentrations in the air and

exceeding the exposure limit values. Provide adequate ventilation, and local exhaust as needed. Avoid breathing dust/fume/mist. Avoid contact with skin, eyes, and clothing. Do not inhale substance. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Do not weigh in storerooms. Do not mix with peroxide activators and reducing agents. During the processing the peroxide and the accelerator have to be weight out separately and added. Avoid shock and friction. Use shoes with conductive sole. When using do not eat, drink or smoke. Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Take standard precautions to prevent fire. Keep away from sources of ignition. Use only explosion-proof equipment. Take precautionary measures against static discharges.

#### **Storage**

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place. Keep only in the original container. Protect from heat and direct sunlight.

Store carefully closed containers upright to prevent any leaks. Do not drop, drag or bang

Recommended storage temperature: <25 °C/77 °F

Only trained personnel may be allowed to enter storage area.

Hints on joint storage: Do not store together with: strong oxidizing agents, acids.



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# 8. Exposure controls / personal protection

### **Exposure guidelines**

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value
94-36-0	Dibenzoyl peroxide	USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	5 mg/m³ 5 mg/m³ 5 mg/m³
557-05-1	Zinc distearate	USA: NIOSH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	10 mg/m³ inhalable fraction 5 mg/m³ (respirable fraction) 15 mg/m³ (inhalable fraction) 5 mg/m³ (respirable fraction)

### **Engineering controls**

Provide adequate ventilation, and local exhaust as needed. Minimise exposure using measures such as closed systems, dedicated facilities and suitable general/local exhaust ventilation. Use only explosion-proof equipment. Avoid shock and friction.

See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI

Z87.1-2010.

Skin protection Wear closed work clothing. Use shoes with conductive sole.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Chemically resistant gloves.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

General hygiene considerations:

Avoid breathing dust/fume/mist. Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse. Do not inhale substance. Work place should be equipped with a shower and an eye rinsing apparatus. Wash hands before breaks and after work. Keep away from sources of ignition. When using do not eat, drink

or smoke. Keep away from food and drinks.

# 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance: Physical state at 68 °F and 101.3 kPa: solid

Form: paste

Color: white, red, black or blue

Odor: weak

Odor threshold: No data available

pH value: not applicable Melting point/freezing point: not determined

Initial boiling point and boiling range: 122 °F (Dibenzoyl peroxide)

201.2 °F (c.c.) Flash point/flash point range: Evaporation rate: No data available Flammability No data available **Explosion limits:** No data available Vapor pressure: No data available



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Vapor density: No data available

Density: 1.2 g/cm<sup>3</sup>

Solubility:

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Thermal decomposition:

No data available
No data available
122 °F (SADT)

Additional information: No data available

# 10. Stability and reactivity

Reactivity: From 122 °F: Danger of a hazardous self-accelerating decomposing reaction.

Heating may cause a fire. Can explode if overheated.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous, self-accelerating decomposition reaction is possible. Under certain

conditions an explosion or fire may occur as a result of direct contact with incompatible

substances or through thermal decomposition.

Critical temperature approx. 122 °F

Conditions to avoid: Protect from heat and direct sunlight. Avoid shock and friction. Keep away from sources

of ignition. Avoid the formation of aerosol/vapors.

Incompatible materials: Strong oxidizing agents, acids

Hazardous decomposition products:

Carbon monoxide and carbon dioxide.

Thermal decomposition: 122 °F (SADT)

# 11. Toxicological information

#### **Toxicological tests**

Toxicological effects: The statements are derived from the properties of the single components. No toxicological

data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.
Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data. Reproductive toxicity: Lack of data. Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.



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Other information: Information about dibenzoyl peroxide:

LD50 Rat, oral: 6400-7710 mg/kg

**Symptoms** 

In case of inhalation:

Harmful and/or toxic vapors may be produced in the event of thermal decomposition. Fatal

if inhaled.

In case of ingestion: May be harmful if swallowed.

Following symptoms can occur depending on degree of seriousness: gastrointestinal

complaints, nausea, vomiting, diarrhea.

After contact with skin: Danger of cutaneous absorption.

Following symptoms can occur depending on degree of seriousness: Irritation, redness,

pain, sensitising.

After eye contact: Irritation, redness, pain.

# 12. Ecological information

**Ecotoxicity** 

Further details: No data available

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

Volatile organic compounds (VOC):

0 % by weight

General information: Do not allow to penetrate into soil, waterbodies or drains.

# 13. Disposal considerations

**Product** 

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in

the same way as the substance itself. Non-contaminated packages may be recycled. Do

not remove label until container is thoroughly cleaned.



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# 14. Transport information

# **USA:** Department of Transportation (DOT)

Identification number: **UN3108** 

UN 3108, ORGANIC PEROXIDE TYPE E, SOLID Proper shipping name:

(Dibenzoyl peroxide)

Hazard class or Division: 5.2 5.2 Lahels: Symbols: G Packaging - Exceptions: 152 Packaging - Non-bulk: 225 Packaging - Bulk: None Quantity limitations - Passenger aircraft / rail:

10 kg

Quantity limitations - Cargo only: 25 kg Vessel stowage - Location: D

Vessel stowage - Other: 12, 25, 52, 53

Remarks: The following must be typed on Dangerous Goods paperwork:

THE PACKAGE CONTAINING UN 3108 MUST BE SHADED FROM DIRECT SUNLIGHT, STORED AWAY FROM ALL SOURCES OF HEAT, IN A WELL VENTILATED AREA.

#### Sea transport (IMDG)

**UN 3108** UN number:

UN 3108, ORGANIC PEROXIDE TYPE E, SOLID (Dibenzoyl peroxide) Proper shipping name:

Class or division, Subsidary risk: Class 5.2, Subrisk -

Packing Group:

EmS: F-J, S-R Special provisions: 122, 274 Limited quantities: 500 g Excepted quantities: E0 Contaminated packaging - Instructions: P520 Contaminated packaging - Provisions: IBC - Instructions: IBC - Provisions: Tank instructions - IMO: Tank instructions - UN:

Stowage and handling: Category D. SW1 SG35 SG36 SG72 Segregation:

Properties and observations: Decomposes at elevated temperatures or in a fire. Burns vigorously.

Insoluble in water. Contact with the eyes and skin should be avoided. May

evolve irritant or toxic fumes.

Marine pollutant: yes Segregation group: none

#### Air transport (IATA)

Tank instructions - Provisions:

UN/ID number: **UN 3108** 

Proper shipping name: UN 3108, ORGANIC PEROXIDE TYPE E, SOLID (Dibenzoyl peroxide)

Class or division, Subsidary risk: Class 5.2

Organic peroxide Hazard label:

**Excepted Quantity Code:** 

Passenger and Cargo Aircraft: Ltd.Qty.: Forbidden

Passenger and Cargo Aircraft: Pack.Instr. 570 - Max. Net Qty/Pkg. 10 kg Pack.Instr. 570 - Max. Net Qty/Pkg. 25 kg Cargo Aircraft only:

Special provisions: A20 A802

Emergency Response Guide-Code (ERG): 5L





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# 15. Regulatory information

### National regulations - U.S. Federal Regulations

Product: All ingredients of this product are listed on the TSCA inventory.

Dibenzoyl peroxide: Carcinogen Status:

IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Other Environmental Laws:

SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard

NIOSH Recommendations:

Occupational Health Guideline: 0052

OSHA Process Safety Management: Threshold 7500 lbs.

Zinc distearate: NIOSH Recommendations:

Occupational Health Guideline: 0676

#### **National regulations - Great Britain**

Hazchem-Code: 1W

### 16. Other information

Text for labeling: Contains 40 - 50 % Dibenzoyl peroxide, 10 - 25 % Benzoic acid, C9-11-branched alkyl

esters, 5 - 10 % Zinc distearate. Safety data sheet available on request.

Hazard rating systems: NFPA Hazard Rating:

2 2 2

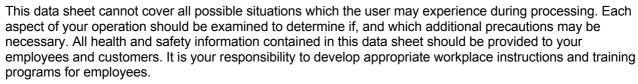
Health: 2 (Moderate)
Fire: 2 (Moderate)
Reactivity: 2 (Moderate)
HMIS Version III Rating:
Health: 2 (Moderate)

Flammability: 2 (Moderate)
Physical Hazard: 2 (Moderate)
Personal Protection: X = Consult your supervisor

Reason of change: Changes in section 14: Transport information, danger releasing substance

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information



As the conditions and methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. All statements or suggestions are made without warranty, expressed or implied, regarding accuracy of information, the hazards connected with the use of the product or the results to be obtained from the use thereof.





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# Airfill 2 Filler Paste

Material number 1036

1. Product and company identification

#### **Product identifier**

Trade name: Airfill 2 Filler Paste

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

General use: Filling compound.

Reserved for industrial and professional use.

#### Details of the supplier of the safety data sheet

Company name: Airtech International, Inc. Airtech Europe Sarl

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Huntington Beach, CA 92647 L-4562 Differdange

E-mail: airtech@airtechintl.com Luxembourg

Website: www.airtechonline.com Website: www.airtech.lu Telephone: +1 714.899.8100 Telephone: +352 582.282 Dept. responsible for information:

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#### **Emergency phone number**

CHEMTREC EMERGENCY PHONE: Within USA/Canada: 1-(800)424-9300

International: +1 703-741-5970

### 2. Hazards identification

### **Emergency overview**

Appearance: Physical state at 68 °F and 101.3 kPa: solid

Form: Paste (viscous, semi-solid)

Color: varying colors

Odor: like styrene

Classification: Acute Toxicity - inhalative - Category 4; Skin Irritation - Category 2; Eye Irritation -

Category 2A; Reproductive toxicant - Category 2;

Specific Target Organ Toxicity (Single Exposure) - Category 3; Specific Target Organ Toxicity (Repeated Exposure) - Category 1;



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Hazard symbols:





Signal word: Danger

Hazard statements: Causes skin irritation.

Causes serious eye irritation.

Harmful if inhaled.

May cause respiratory irritation.

Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

Obtain special instructions before use.

Do not breathe fume/gas/mist/vapors/spray.

Wash hands and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection.

IF ON SKIN: Wash with plenty of water/soap.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Call a POISON CENTER/doctor if you feel unwell.

Specific treatment (see 'First aid 'on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container to hazardous or special waste collection point.

#### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

#### Hazards not otherwise classified

see section 11: Toxicological information

# 3. Composition / Information on ingredients

Chemical characterization:

Contains <26% polyester (polymer) .



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Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 100-42-5	Styrene	< 20 %	Flammable Liquid - Category 3. Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2. Eye Irritation - Category 2A. Reproductive toxicant - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Specific Target Organ Toxicity (Repeated Exposure) - Category 1. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 3.
CAS 25013-15-4	Vinyltoluene	< 10 %	Flammable Liquid - Category 3. Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1.
CAS 14808-60-7	Quartz (SiO2)	< 1 %	Carcinogenicity - Category 2. Specific Target Organ Toxicity (Repeated Exposure) - Category 2.

Additional information: Contains Talcum, Limestone, silicon dioxide, fiberglass, carbon.

The maximum workplace exposure limits are, where necessary, listed in section 8.

### 4. First aid measures

General information: First aider: Pay attention to self-protection!

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Do not allow victim to

become chilled. Keep victim warm. Keep airway open. If breathing has stopped, give artificial respiration immediately. In case of breathing difficulties administer oxygen.

Seek medical attention.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Change

contaminated clothing. Seek medical treatment in case of troubles.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids

apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently

consult an ophthalmologist.

After swallowing: Immediately call a doctor. Do not induce vomiting without medical assistance. Rinse

mouth with water. Never give anything by mouth to an unconscious person.

#### Most important symptoms/effects, acute and delayed

Harmful if inhaled. Causes skin irritation. Causes serious eye irritation., May cause respiratory irritation.

### Information to physician

Treat symptomatically.

# 5. Fire fighting measures

Flash point/flash point range:

87.8 - 127.4 °F (c.c.)

Auto-ignition temperature:

not determined

Suitable extinguishing media:

Dry chemical powder, foam, carbon dioxide, water spray jet



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Extinguishing media which must not be used for safety reasons:

Full water jet.

### Specific hazards arising from the chemical

Product is non-combustible. Harmful and/or toxic vapors may be produced in the event of thermal decomposition. In case of fire may be liberated: nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Seal off endangered area. Heating causes rise in pressure with risk of bursting. Cool

endangered containers with water spray and, if possible, remove from danger zone. Fight

fire from a safe distance. Stay upwind/keep distance from source.

# 6. Accidental release measures

Personal precautions: Avoid the formation of aerosol/vapors. Avoid contact with skin and eyes. Do not breathe

vapor or spray. Wear appropriate protective equipment. Keep unprotected people away.

Ensure adequate ventilation, especially in confined areas.

Environmental precautions:

Do not allow to enter drains, surface waters, basements or pits. If necessary notify

appropriate authorities.

Methods for clean-up: Provide adequate ventilation. Plug leak if safely possible. Soak up with absorbent

materials such as sand, siliceus earth, acid- or universal binder. Store in special closed

containers and dispose of according to ordinance.

# 7. Handling and storage

#### Handling

Advices on safe handling: Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Provide adequate ventilation, and local exhaust as needed. Avoid

contact with skin, eyes, and clothing. Avoid the formation of aerosol/vapors. Do not breathe vapor or spray. Wear appropriate protective equipment. When using do not eat,

drink or smoke. Wash hands before breaks and after work.

Precautions against fire and explosion:

Take standard precautions to prevent fire. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Use only non-sparking

tools.

### Storage

Requirements for storerooms and containers:

Storage temperature: < 100.4 °F. Keep only in the original container.

Keep container tightly closed in a cool, well-ventilated place. Store in a dry place. Do not drop, drag or bang the container. Protect from frost. Protect against direct sunlight. Keep

away from incompatible materials.

Hints on joint storage: Incompatible materials: Strong oxidizing agents, acids, metals, polymerization initiator

Keep away from food and drinks.



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# 8. Exposure controls / personal protection

# **Exposure guidelines**

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value
14807-96-6	Talcum	USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	2 mg/m³ respirable fraction 2 mg/m³ 20 mppcf Containing less than 1% quartz
1317-65-3	Limestone	USA: NIOSH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	10 mg/m³ inhalable fraction 5 mg/m³ (respirable fraction) 15 mg/m³ inhalable fraction 5 mg/m³ (respirable fraction)
100-42-5	Styrene	OSHA: Ceiling	200 ppm (Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift: 600 ppm 5 mins. in any 3 hrs.)
		USA: ACGIH: STEL USA: ACGIH: TWA USA: NIOSH: STEL USA: NIOSH: TWA USA: OSHA: TWA	170 mg/m³; 40 ppm 85 mg/m³; 20 ppm 425 mg/m³; 100 ppm 215 mg/m³; 50 ppm 100 ppm (Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift: 600 ppm 5 mins. in any 3 hrs.)
25013-15-4	Vinyltoluene	USA: ACGIH: STEL USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	483 mg/m <sup>3</sup> ; 100 ppm 242 mg/m <sup>3</sup> ; 50 ppm 480 mg/m <sup>3</sup> ; 100 ppm 480 mg/m <sup>3</sup> ; 100 ppm
65997-17-3	Glass fibers	USA: ACGIH: TWA	1 fibers/cm³ (Synthetic vitreous fibres, Continuous filament glass fibres)
		USA: ACGIH: TWA	5 mg/m³ (Synthetic vitreous fibres, Continuous filament glass fibres, inhalable fraction)
		USA: NIOSH: TWA	3 fibers/cm³ Fibers less than or equal to 3,5 μm in diameter and greater than or equal to 10μm in length.
		USA: NIOSH: TWA	5 mg/m³ (Fiber glas®, Fiberglass, Glass fibers, Glass wool, total dust)
1333-86-4	Carbon	USA: ACGIH: TWA USA: NIOSH: TWA	3 mg/m³ (inhalable fraction) 0.1 mg PAHs/m³ (Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs))
		USA: NIOSH: TWA USA: OSHA: TWA	3.5 mg/m³ 3.5 mg/m³
14808-60-7	Quartz (SiO2)	USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA USA: OSHA: TWA	0.025 mg/m³ (respirable fraction) 0.05 mg/m³ (respirable fraction) 10 mg/m³/% SiO2+ 2 (respirable fraction) 250 mppcf/%SiO2+5 (fine dust) 30 mg/m³/% SiO2+ 2 (inhalable fraction)



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Biological limit values:

CAS No.	Designation	Туре	Limit value	Parameter	Sampling
100-42-5	Styrene	USA: ACGIH-BEI, urine	40 μg/L	Styrene in urine	end of exposure or end of shift
		USA: ACGIH-BEI, urine	400 mg/g creatinine	Mandelic acid + Phenylglyoxylic acid	end of exposure or end of shift

### **Engineering controls**

Minimise exposure using measures such as closed systems, dedicated facilities and

suitable general/local exhaust ventilation. See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI

Z87.1-2010.

Skin protection Wear suitable protective clothing.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

Use combination filter type A/P according to OSHA Standard - 29 CFR: 1910.134 or

ANSI 788.2

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact

with skin, eyes, and clothing.

Change contaminated clothing. Wash contaminated clothing prior to re-use. Have eye wash bottle or eye rinse ready at work place. Wash hands before breaks and after

work. When using do not eat, drink or smoke.

# 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance Physical state at 68 °F and 101.3 kPa: solid

Form: Paste (viscous, semi-solid)

Color: varying colors

Odor: like styrene

Odor threshold 0.16 ppm (Styrene)

pH value: not applicable Melting point/freezing point: No data available Initial boiling point and boiling range: > 293 °F (Polyester) 87.8 - 127.4 °F (c.c.) Flash point/flash point range: Evaporation rate: <= 1 (Styrene)

Flammability Burning rate test: Not fulfilling criteria for hazard class "Flammable Solids".

LEL (Lower Explosion Limit): 1.10 Vol-% Explosion limits: UEL (Upper Explosive Limit): 6.10 Vol-%

at 68 °F: 5.7 hPa (Styrene) Vapor pressure:

3.6 (Styrene) Vapor density: Density: 1.52 - 1.57 g/cm<sup>3</sup>

Water solubility: insoluble



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Partition coefficient: n-octanol/water: 2.95 log P(o/w) (Styrene)

Based on the n-octanol/water partition coefficient significant accumulation

in organisms is not expected.

Auto-ignition temperature: not determined
Thermal decomposition: not determined

Viscosity, dynamic:
viscosity, kinematic:
not determined
not determined
Explosive properties:
not determined
Oxidizing characteristics:
not determined
lgnition temperature:
914 °F (Styrene)

# 10. Stability and reactivity

Reactivity: Refer to section: Possibility of hazardous reactions.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous polymerization can occur under certain conditions, including increased

temperature, low inhibitor concentration and low oxygen.

Polymerization along with heat production.

Conditions to avoid: Keep away from heat. Avoid the formation of aerosol/vapors.

Protect against direct sunlight.

Incompatible materials: Oxidising agent, acids, alkalis

Thermal decomposition: not determined



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# 11. Toxicological information

# **Toxicological tests**

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological

data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

ATEmix calculated: 2750.6 mg/L Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Acute Toxicity - inhalative -

Category 4 = Harmful if inhaled. ATEmix calculated: 3838.7 ppm (Gas); 16.35 mg/L

(Vapors)

Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.

Serious eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.
Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Reproductive toxicant -

Category 2 = Suspected of damaging the unborn child.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single

Exposure) - Category 3 = May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity

(Repeated Exposure) -

Category 1 = Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard: Lack of data.

Other information:

Information about styrene: LD50 Rat (oral): 2650 mg/kg/bw LD50 Rat (dermal): >2000 mg/kg/bw LD50 Rat (inhalative): 11.8 mg/L/4 h

Affects the central nervous system, possible disturbances from: 50 mL/m<sup>3</sup>.

For carcinogenic effects: IARC Rating: Group 2B OSHA Carcinogen: not listed NTP Rating: not listed

Information about Silicon dioxide: LD50 Rat (oral): 3160 mg/kg/bw

Information about Talcum: For carcinogenic effects: IARC Rating: Group 2B OSHA Carcinogen: not listed

NTP Rating: not listed

Information about Quartz (SiO2):

For carcinogenic effects:

ACHIH: A2 - suspected human carcinogens NIOSH: potential occupational carcinogen

NTP: known human carcinogens

IARC: group 1



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### **Symptoms**

In case of inhalation:

Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher

doses may lead to a narcotic effect.

Following symptoms can occur depending on degree of seriousness: Dizziness,

headache, nausea, confusion

In case of ingestion:

May be harmful if swallowed. Irritations of mucous membranes in the mouth, pharynx,

oesophagus and gastrointestinal tract.

After contact with skin: Redness, irritation, pain After eye contact: Redness, irritation, pain

# 12. Ecological information

### **Ecotoxicity**

Aquatic toxicity: Information about Styrene:

EC50 Selenastrum capricarnotum: 4.9 mg/L/72h.

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 4.7 mg/L/48h. NOEC Daphnia magna (Big water flea): 1.01 mg/L/21d.

Fish toxicity:

LC50 Pimephales promelas (fathead minnow): 4.02 mg/L/96h.

### Mobility in soil

No data available

### Persistence and degradability

Further details: Information about Styrene:

Biodegradation:

71 %/ 28 d (BOD/ThOD / ISO 9408). Readily biodegradable. 100 %/14 d (OECD 302 C). Inherently biodegradable.

#### Additional ecological information

Volatile organic compounds (VOC):

24 % by weight = 341 g/L

General information: Do not allow to penetrate into soil, waterbodies or drains.

# 13. Disposal considerations

### **Product**

Recommendation: Dispose of as hazardous waste. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in

the same way as the substance itself. Non-contaminated packages may be recycled. Do

not remove label until container is thoroughly cleaned.

### **Additional information**

California Hazardous Waste Status

Information about Styrene (CAS 100-42-5): Toxic, Ignitable



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# 14. Transport information

**USA:** Department of Transportation (DOT)

Proper shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no

Air transport (IATA)

Proper shipping name: Not restricted

**Further information** 

No dangerous good in sense of these transport regulations.



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# 15. Regulatory information

# National regulations - U.S. Federal Regulations

Talcum: TSCA Inventory: listed

TSCA HPVC: not listed
Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

NIOSH Recommendations: Occupational Health Guideline: 0584

Limestone: TSCA Inventory: listed; UVCB

TSCA HPVC: not listed NIOSH Recommendations:

Occupational Health Guideline: 0090\*

Styrene: TSCA Inventory: listed

TSCA HPVC: not listed Carcinogen Status: IARC Rating: Group 2B

OSHA Carcinogen: not listed

NTP Rating: listed Clean Air Act:

Hazardous Air Pollutants: Code XOV

SOCMI Chemical: yes

Clean Water Act:

Hazardous Substances: RQ 1000 lbs.

Other Environmental Laws: CERCLA: RQ 1000 lbs.

RCRA Groundwater Monitoring: Methods 8020, 8240 / PQL 1, 5

SARA Title III Section 313, Toxic Release: Conc. 0.1% / Threshold Standard

NIOSH Recommendations:

Occupational Health Guideline: 0571

Silicon dioxide: TSCA Inventory: not listed
Glass fibers: TSCA Inventory: listed; UVCB

TSCA HPVC: not listed

Carbon: TSCA Inventory: listed; UVCB; EPA flags XU

TSCA HPVC: not listed Carcinogen Status: IARC Rating: Group 2B OSHA Carcinogen: not listed NTP Rating: not listed

NIOSH Recommendations: Occupational Health Guideline: 0102

Quartz (SiO2): TSCA Inventory: listed

TSCA HPVC: not listed Carcinogen Status: IARC Rating: Group 1 OSHA Carcinogen: not listed

NTP Rating: listed NIOSH Recommendations:

Occupational Health Guideline: 0553



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#### National regulations - U.S. State Regulations

Talcum: California Proposition 65 code: not listed

Massachusetts Haz. Substance codes: 2,4 F5

Minnesota Haz. Substance: Codes: AO - Ratings: --

Pennsylvania Haz. Substance code: -

Washington Air Contaminant:

TWA: 2mg

Wisconsin Hazardous Air Contaminant List (Appears on Table): A

Styrene: Delaware Air Quality Management List:

DRQ: 1000 - RQ State: Federal Regulations Apply

Idaho Air Pollutant List:

Title 585 -- AAC: 1 -- EL: 6.67 -- WEL: - Title 586 -

Maine Hazardous Air Pollutants: Me 2005: HAP - Hap Rpt: 2000

Massachusetts Haz. Substance codes: 1,2,4,5,6,9 \*E\*C\* F7 F8

Michigan Critical Material:

Note: 2 - CMR#: 27 - Parameter#: 00100-42-5 - Annual Usage Parameter: 100

Minnesota Haz. Substance:

Codes: ANO -- Ratings: 9.63 -- Status: Air Pollutant. Carcinogen. Title III. TRI.

New Jersey RTK Hazardous Substance: DOT 2055 - Sub No.: 1748 - TPQ: -New York List of Hazardous Substances:

RQ -- Air: 1000 - RQ -- Land: 1 - Note: No Note Associated with this chemical.

Pennsylvania Haz. Substance code: E

Washington Air Contaminant:

TWA: 50 ppm / 215 mg -- STEL: 100 ppm / 425 mg

California Proposition 65: cancer

Rhode Island HSL: listed

Carbon: California Proposition 65: cancer

Rhode Island HSL: listed

Quartz (SiO2): California Proposition 65: cancer

Rhode Island HSL: listed

### National regulations - Great Britain

Hazchem-Code: -

# 16. Other information

Text for labeling: Contains < 20 % Styrene, < 10 % Vinyltoluene, < 1 % Quartz (SiO2). Safety data sheet

available on request.

Hazard rating systems: NFPA Hazard Rating: Health: 2 (Moderate)

Fire: 0 (Minimal)
Reactivity: 1 (Slight)
HMIS Version III Rating:

Health: 2 (Moderate) - Chronic effects

Flammability: 0 (Minimal) Physical Hazard: 1 (Slight)

Personal Protection: X = Consult your supervisor

Reason of change: Changes in section 1: Company/undertaking identification

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information





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This data sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, and which additional precautions may be necessary. All health and safety information contained in this data sheet should be provided to your employees and customers. It is your responsibility to develop appropriate workplace instructions and training programs for employees.

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