

Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place. Do not drop, drag or bang the container. Protect from frost and exposure to sun.

Hints on joint storage: Keep away from food and drinks.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
14808-60-7	Silicon dioxide	USA: ACGIH: TWA	0.025 mg/m ³ (respirable fraction)
		USA: NIOSH: TWA	0.05 mg/m ³ (respirable fraction)
		USA: OSHA: TWA	(respirable Dust)
		USA: OSHA: TWA	10 mg/m ³ /% SiO ₂ + 2(respirable Dust)
		USA: OSHA: TWA	250 mppcf/%SiO ₂ +5(respirable Dust)
		USA: OSHA: TWA	30 mg/m ³ /% SiO ₂ + 2inhalable fraction
		USA: OSHA: TWA	inhalable fraction
7631-86-9	Silicon dioxide	USA: NIOSH: TWA	6 mg/m ³
		USA: OSHA: TWA	20 mppcf
		USA: OSHA: TWA	80 mg/m ³ (per % SiO ₂ ; total dust)

Engineering controls

Provide adequate ventilation, and local exhaust as needed.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection Safety glasses for normal handling, and sealed goggles for handling material during heated processing or opening packages after material has been in closed storage. PPE to be in accordance with OSHA 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.
Glove material: Plastic or Rubber.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: When vapors form, use respiratory protection. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations:

Avoid contact with skin, eyes, and clothing. Change contaminated clothing. Eye wash facility must be provided. 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: Form: pasty
Color: brown

Odor:	odorless
Odor threshold:	no data available
pH value:	no data available
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	> 399.2 °F
Flash point/flash point range:	302 °F (o.c.)
Evaporation rate:	no data available
Flammability:	no data available
Explosion limits:	no data available
Vapor pressure:	no data available
Vapor density:	no data available
Density:	no data available
Solubility:	no data available
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	no data available
Thermal decomposition:	no data available
Additional information:	no data available

10. Stability and reactivity

Reactivity:	Refer to section: Possibility of hazardous reactions.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions known.
Conditions to avoid:	Keep away from heat.
Incompatible materials:	no data available
Hazardous decomposition products:	In case of fire may be liberated: Silicon dioxide, traces of incompletely burned carbon compounds, formaldehyde, carbon monoxide and carbon dioxide.
Thermal decomposition:	no data available

11. Toxicological information

Toxicological tests

Toxicological effects:

- Acute toxicity (oral): Lack of data.
- Acute toxicity (dermal): Lack of data.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Lack of data.
- Eye damage/irritation: Lack of data.
- 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: Toxic to Reproduction - Category 2 = Suspected of damaging fertility or the unborn child.
- 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.

Symptoms

In case of inhalation:
Overheating released mist or vapors can irritate the respiratory tracts. Can damage your health.

In case of ingestion: Gastrointestinal irritation.

After contact with skin:
Frequently or prolonged contact with skin may cause dermal irritation.

After eye contact: Product can cause slight irritation.

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

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

13. Disposal considerations

Product

Recommendation: Special 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.

14. Transport information**USA: Department of Transportation (DOT)**

Proper shipping name: Not controlled under DOT

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.

15. Regulatory information**U.S. Federal Regulations**

Silicon dioxide: 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

Silicon dioxide: 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: 0552

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Text for labeling: Contains 25 - 50 % Silicon dioxide, 5 - 20 % Silicon dioxide, < 1 % Octamethylcyclotetrasiloxane. Safety data sheet available on request.

SAFETY DATA SHEET

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

Aircast 3700A

Material number 1032

Revision date: 4/27/2015

Version: 8

Language: en-US

Date of first version: 10/9/2014

Page:

8 of 8

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate) - Chronic effects

Flammability: 1 (Slight)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0
		X

Reason of change:

Changes in section 1: General revision

Department issuing data sheet

Contact person:

see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

1. Product and company identification

Product identifier

Trade name: Aircast 3700B

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

General use: Curing agent for RTV casting resin.
Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: Airtech International, Inc.
Street/POB-No.: 5700 Skylab Road
Postal Code, city: US Huntington Beach, CA 92647
E-mail: airtech@airtechintl.com
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Telephone: +86 22.8622.9800

Emergency phone number

CHEMTREC EMERGENCY PHONE:
Within USA/Canada: 1-(800)424-9300
International: +1 703-741-5970

2. Hazards identification

Emergency overview

Appearance: Form: liquid
Color: blue
Odor: odorless
Classification: Toxic to Reproduction - Category 2;
Hazard symbols:



Signal word: **Warning**
Hazard statements: Suspected of damaging fertility or the unborn child.

Precautionary statements:
Obtain special instructions before use.
Use personal protective equipment as required.
IF exposed or concerned: Get medical advice/attention.
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

Product may separate hydrogen. Danger of explosion!
Direct contact may cause skin and eyes reddening and irritation. Overheating released mist or vapors can irritate the respiratory tracts. In case of ingestion gastrointestinal irritation.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: A mixture of Vinyl dimethyl terminated Polydimethylsiloxane (CAS 68083-19-2) and Polymethylhydrosiloxane (CAS 63148-57-2).

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 556-67-2	Octamethylcyclotetrasiloxane	< 1 %	Flammable Liquid - Category 3. Toxic to Reproduction - Category 2. Aquatic toxicity - chronic - Category 4.

4. First aid measures

In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.
Following skin contact: Remove mechanically with cloth or paper. Change contaminated clothing. Thoroughly wash skin with soap and water. In case of skin reactions, consult a physician.
After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Seek medical attention. Rinse mouth immediately and drink plenty of water. Do not induce vomiting without medical assistance.

Most important symptoms/effects, acute and delayed

Suspected of damaging fertility or the unborn child.
Product can cause slight irritation.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

201.2 °F (o.c.)

Auto-ignition temperature: no data available

Suitable extinguishing media:

Carbon dioxide, dry chemical, foam.

Extinguishing media which must not be used for safety reasons:

Full water jet.

Specific hazards arising from the chemical

Emits toxic fumes under fire conditions.

In case of fire may be liberated: Silicon dioxide, traces of incompletely burned carbon compounds, formaldehyde, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

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

Additional information:

Cool endangered containers with water spray and, if possible, remove from danger zone. Use a water fog to control vapors. Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

Personal precautions:

Product may separate hydrogen. Remove all sources of ignition. Provide adequate ventilation. Wear suitable protective clothing. Avoid contact with the substance.

Environmental precautions:

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

Methods for clean-up:

Soak up with absorbent materials such as sand, siliceous 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: Obtain special instructions before use. Provide adequate ventilation, and local exhaust as needed. Avoid contact with skin and eyes. Do not breathe vapor or spray. Wear suitable gloves.

Precautions against fire and explosion:

Keep away from heat sources, sparks and open flames.

Storage

Requirements for storerooms and containers:

Keep in a cool place. Keep container tightly closed and in a well-ventilated place. Protect from frost and exposure to sun.

Hints on joint storage:

Keep away from strongly acidic and alkaline materials as well as oxidizers.
Keep away from food and drinks.

8. Exposure controls / personal protection

Engineering controls

Provide good ventilation and/or an exhaust system in the work area.
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.
Glove material: Plastic or rubber
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Respiratory protection: When vapors form, use respiratory protection. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
Recommended: Use filter type A (= against vapors of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.
- General hygiene considerations:
Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Eye wash facility must be provided. 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: Form: liquid
Color: blue
- Odor: odorless
- Odor threshold: no data available
- pH value: no data available
- Melting point/freezing point: no data available
- Initial boiling point and boiling range: no data available
- Flash point/flash point range: 201.2 °F (o.c.)
- Evaporation rate: no data available
- Flammability: This material is combustible, but will not ignite readily.
- Explosion limits: no data available
- Vapor pressure: no data available
- Vapor density: no data available

Density:	no data available
Solubility:	no data available
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	no data available
Thermal decomposition:	no data available
Additional information:	no data available

10. Stability and reactivity

Reactivity:	Refer to section: Possibility of hazardous reactions.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous polymerisation: May occur. Polymerization along with heat production. Product may separate hydrogen. Danger of explosion!
Conditions to avoid:	Keep away from heat sources, sparks and open flames.
Incompatible materials:	Strong acid or bases as well as oxidizing agents.
Hazardous decomposition products:	Product may release hydrogen gas. In case of fire may be liberated: Silicon dioxide, traces of incompletely burned carbon compounds, formaldehyde, carbon monoxide and carbon dioxide.
Thermal decomposition:	no data available

11. Toxicological information

Toxicological tests

Toxicological effects:	Acute toxicity (oral): Lack of data.
	Acute toxicity (dermal): Lack of data.
	Acute toxicity (inhalative): Lack of data.
	Skin corrosion/irritation: Lack of data.
	Eye damage/irritation: Lack of data.
	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: Toxic to Reproduction - Category 2 = Suspected of damaging fertility or the unborn child.
	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.

Symptoms

In case of inhalation: Overheating released mist or vapors can irritate the respiratory tracts.

In case of ingestion: Gastrointestinal irritation.

After contact with skin:

Frequently or prolonged contact with skin may cause dermal irritation.

After eye contact: Product can cause slight irritation.

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

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

13. Disposal considerations

Product

Recommendation: Special 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.

14. Transport information

USA: Department of Transportation (DOT)

Proper shipping name: Not controlled under DOT

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.

15. Regulatory information

U.S. Federal Regulations

Vinylidimethyl terminated Polydimethylsiloxane: TSCA Inventory: listed; UVCB; EPA flags XU
TSCA HPVC: not listed

Polymethylhydrosiloxane: TSCA Inventory: listed; UVCB; EPA flags XU
TSCA HPVC: not listed

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Text for labeling: Contains < 1 % Octamethylcyclotetrasiloxane. Safety data sheet available on request.

Hazard rating systems: NFPA Hazard Rating:
Health: 2 (Moderate)
Fire: 1 (Slight)
Reactivity: 0 (Minimal)



HMIS Version III Rating:
Health: 2 (Moderate) - Chronic effects
Flammability: 1 (Slight)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0
		X

Reason of change: Changes in section 1: Information on ingredients General revision

Department issuing data sheet

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

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.