

1. Product and company identification

Product identifier

Trade name: TMR 2001A

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

General use: Epoxy 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
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Telephone: +1 714.899.8100
Telefax: +1 714.899.8179

Dept. responsible for information:
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E-mail: airtech@airtechintl.com

Additional information: Airtech Europe Sarl
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Tygavac Advanced Materials Ltd.
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Broadway Business Park
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Airtech Asia Ltd. Ltd.
888 Airtech Avenue
Huangtai Industrial Development Center
Xiaozhan Country, Jinnan District
Tianjin, China 300353
E-mail: airtechasia@airtechintl.com
Website: www.airtech.asia
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: black
Odor: pleasant odor
Classification: Skin Irritation - Category 2; Eye Irritation - Category 2A; Sensitization - skin - Category 1; Aquatic toxicity - chronic - Category 2;

Hazard symbols:



Signal word:

Warning

Hazard statements: Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Toxic to aquatic life with long lasting effects.

Precautionary statements:

Avoid breathing vapors.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face 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.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
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

May cause respiratory irritation. May be harmful if swallowed.
Contains materials regulated as dust hazards, dispersed in a non-hazardous form. If dust is recreated, appropriate respiratory and/or explosion precautions must still be used.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Epoxy resin based mixture, <100 %

Additional information: Under HCS 2012, §1910.1200(i) the precise composition of the product is withheld as trade secret. A more complete disclosure can be provided to a health, or safety professional when necessary.

4. First aid measures

In case of inhalation: Provide fresh air. In case of breathing difficulties administer oxygen. Immediately get medical attention.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Take off contaminated clothing and wash it before reuse. 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. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.

Most important symptoms/effects, acute and delayed

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

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

> 348.8 °F

Auto-ignition temperature: no data available

Suitable extinguishing media:

Water fog, dry chemical, foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

High power water jet.

Specific hazards arising from the chemical

This material is combustible, but will not ignite readily.

May form dangerous gases and vapours in case of fire.

Formation of numerous unknown compounds is possible.

In case of fire may be liberated: Aldehydes, acids, phenols, 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. Cool endangered containers with water spray and, if possible, remove from danger zone. Use a water fog to control vapors. Do not inhale explosion and combustion gases. Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

Personal precautions:

Avoid contact with skin, eyes, and clothing. Avoid the formation of aerosol. Do not breathe vapor or spray. Wear protective equipment. Keep unprotected people away. Provide adequate ventilation.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains. In case of release, notify competent authorities.

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. Wash spill area with hot water.

Additional information:

Special danger of slipping by leaking/spilling product.

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid contact with skin, eyes, and clothing. Avoid the formation of aerosol. Do not breathe vapor or spray. Wear protective equipment. Handle and open container with care. When using do not eat, drink or smoke. After work, wash hands and face.

Precautions against fire and explosion:

Take standard precautions to prevent fire. Protect from excessive heat. Keep away from sources of ignition. - No smoking.

Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place. Keep container dry. Keep away from heat sources, sparks and open flames. Take care when re-opening already used containers. Store containers in upright position. Keep away from incompatible materials.

Hints on joint storage:

Incompatible materials: Strong acids, strong oxidizing agents, amines (aliphatic).

8. Exposure controls / personal protection

Exposure guidelines

Additional information: Contains materials regulated as dust hazards, dispersed in a non-hazardous form. If dust is recreated, appropriate respiratory and/or explosion precautions must still be used.

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: 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: Nitrile rubber or neoprene.
Layer thickness (recommended): >0.5 mm.
Breakthrough time: not tested.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Use a breathing protection against vapors/aerosol.
Recommended: Use filter type A (= against vapors of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.
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. Take off contaminated clothing and wash it before reuse. Do not breathe vapor or spray. Eye wash facility must be provided. When using do not eat, drink or smoke.

Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Form: liquid Color: black
Odor:	pleasant odor
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:	> 348.8 °F
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:	See section: Possibility of hazardous reactions
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reaction when handled and stored according to provisions.
Conditions to avoid:	Keep away from heat.
Incompatible materials:	Strong acids, bases, oxidizing agents.
Hazardous decomposition products:	In case of fire may be liberated: aldehyde, acids, phenols, carbon monoxide and carbon dioxide. Formation of numerous unknown compounds is possible.
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: Skin Irritation - Category 2 = Causes skin irritation. The product has not been tested. The statement is derived from the properties of the single components. Eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation. The product has not been tested. The statement is derived from the properties of the single components. Sensitisation to the respiratory tract: Lack of data. Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction. The product has not been tested. The statement is derived from the properties of the single components. 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.
Other information:	Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure. IARC rating: Contains materials assigned to Group 3 and Group 2B when in respirable form. Under HCS 2012, §1910.1200(i) the precise composition of the product is withheld as trade secret. A more complete disclosure can be provided to a health, or safety professional when necessary.

Symptoms

In case of inhalation: May cause respiratory irritation.
In case of ingestion: May be harmful if swallowed.
After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

12. Ecological information

Ecotoxicity

Aquatic toxicity:	The product has not been tested. The statement is derived from the properties of the single components. Toxic to aquatic life with long lasting effects.
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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**

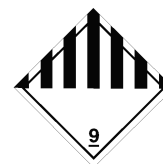
Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

Contaminated packaging

Recommendation: Empty carefully and completely, if possible. Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Do not remove label until container is thoroughly cleaned. Non-contaminated packages may be recycled.

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

Identification numbers: UN3082
Proper shipping name: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Epoxy resin based mixture)
DOT hazard class or division: 9
PG: III
Label codes: 9
Symbols: G
Special provisions: 8, 146, 173, 335, IB3, T4, TP1, TP29
Packaging - Exceptions: 155
Packaging - Non-bulk: 203
Packaging - Bulk: 241
Quantity limitations - Passenger aircraft / rail: No limit
Quantity limitations - Cargo only: No limit
Vessel stowage - Location: A



TMR 2001A

Material number 1063

Page:

8 of 9

Sea transport (IMDG)

UN number: 3082
Proper shipping name: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ()
IMDG: Class 9, Subrisk -
Packing Group: III
EmS: F-A, S-F
Special provisions: 274, 335, 969
Limited quantities: 5 L
EQ: E1
Contaminated packaging - Instructions: P001, LP01
Contaminated packaging - Provisions: PP1
IBC - Instructions: IBC03
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP2, TP29
Stowage and handling: Category A.
Properties and observations: -
Marine pollutant: Yes

Air transport (IATA)

UN/ID number: 3082
Proper shipping name: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ()
ICAO/IATA: Class 9
PG: III
Hazard: Miscellaneous
EQ: E1
Passenger Ltd.Qty.: Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G
Passenger: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Cargo: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Special Provisioning: A97 A158 A197
ERG: 9L

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

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

National regulations - EC member states**Labeling (67/548/EEC or 1999/45/EC)**

Code letter and hazard symbol:

Xi irritant
N dangerous for the environment

National regulations - Great Britain

Hazchem-Code: •3Z

16. Other information

Text for labeling: Safety data sheet available on request.

SAFETY DATA SHEET

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

TMR 2001A

Material number 1063

Revision date: 4/27/2015
Version: 9
Language: en-US
Date of first version: 11/5/2008

Page: 9 of 9

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate)

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.