

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

Revision date: 9/4/2018 Version: 13 Language: en-US Date of first version: 10/15/2008

## Infusioncoat 1A

Material number 1047 Page: 1 of 11

## 1. Product and company identification

#### **Product identifier**

Trade name: Infusioncoat 1A

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

General use: Epoxy resin-coating 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

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

Telephone: +1 714.899.8100 Telephone: +352 582.282 E-mail: airtech@airtechintl.com E-mail: sales@airtech.lu

Tygavac Advanced Materials Ltd. Airtech Asia Ltd.

The Causeway No. 161 of Anyuan Rd

Broadway Business Park Chagugang County Chadderton, Oldham Wuqing District

OL9 9XD United Kingdom
Website: www.tygavac.co.uk
Telephone: +44 161.947.1610
Dept. responsible for information:
Telephone: +44 161.947.1610
Telephone: +44 161.947.1610
E-mail: sales@tygavac.co.uk

301721, Tianjin, P.R. China
Website: www.airtech.asia
Telephone: +86 22 8862 9800
Telefax:: +86 22 8862 9900
Dept. responsible for information:
Telephone: +86 22 8862 9800

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: Form: pasty

Color: black characteristic

Classification: Skin Irritation - Category 2; Eye Irritation - Category 2A; Sensitization - skin -

Category 1; Aquatic toxicity - chronic - Category 2;

Hazard symbols:

Odor:





Signal word: Warning



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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/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.

Collect spillage.

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

Thermal decomposition can lead to the escape of irritating gases and vapors. May cause respiratory irritation. May be harmful if swallowed. Special danger of slipping by leaking/spilling product.

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

### Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 25085-99-8	Bisphenol A epoxy resin	< 60 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 25068-38-6	Reaction product: Bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <=700)	< 30 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 2425-79-8	1,4-bis(2,3- Epoxypropoxy)butane	< 10 %	Acute Toxicity - dermal - Category 4. Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 3.



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#### 4. First aid measures

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. 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. Take off

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

physician.

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

apart.

Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Immediately get medical attention. Do not induce vomiting without medical assistance.

If person is clearly conscious, have them drink two glasses of water to dilute ingested

material.

Never give an unconscious person anything through the mouth.

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

In case of inhalation:

Thermal decomposition can lead to the escape of irritating gases and vapors. May cause

respiratory irritation.

In case of ingestion: May be harmful if swallowed.

After contact with skin: Sensitisation, irritation, redness, pain,

After eye contact: Irritation, redness, pain.

#### Information to physician

Treat symptomatically.

## 5. Fire fighting measures

Flash point/flash point range:

No data available

Auto-ignition temperature:

No data available

Suitable extinguishing media:

Water spray jet, foam, dry chemical powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

### Specific hazards arising from the chemical

This material is combustible, but will not ignite readily. Emits toxic fumes under fire conditions.

In case of fire may be liberated: Aldehyde, acids, phenols, carbon monoxide and carbon dioxide.

Formation of numerous unknown compounds is possible.

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. Use a water fog to control vapors. Do not allow fire water to penetrate into surface or ground water.



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### 6. Accidental release measures

Personal precautions: Avoid the formation of aerosol/vapors. Avoid inhalation and contact with skin and eyes.

Respiratory protection in case of aerosol or vapor formation. Wear appropriate protective equipment. Keep unprotected people away. Ensure adequate ventilation, especially in

confined areas.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains. If necessary notify appropriate

authorities.

Methods for clean-up: Dam spills. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or

universal binding agents) and place in closed containers for disposal. Wash spill area

with hot water. Dispose of waste according to applicable legislation.

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. Do not breathe vapor or spray. Use suitable personal protective equipment to protect skin and eyes. Take care when re-opening already used containers. Handle and open container with care. 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.

#### **Storage**

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place. Keep away from sources of

ignition. Store in a dry place. Do not drop, drag or bang the container.

Hints on joint storage: Avoid contact with strong acids, oxidizing agents and alkalis. 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
471-34-1	Calcium carbonate	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)
1333-86-4	Carbon	USA: ACGIH: TWA USA: NIOSH: TWA  USA: NIOSH: TWA USA: OSHA: TWA	3 mg/m³ (inhalable fraction) 0.1 mg PAHs/m³ (Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)) 3.5 mg/m³ 3.5 mg/m³

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 closed work clothing.

Protective gloves according to EN 374. 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: When vapors form, use respiratory protection.

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/vapor/aerosol/particulates) that may arise when handling the product.

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. Have eye wash bottle or eye rinse ready at work place. When using do not eat, drink or smoke. Wash hands before breaks and

after work.



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## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance: Form: pasty

Color: black characteristic

Odor: characteristic
Odor threshold: No data available

pH value: neutral

Melting point/freezing point:

Initial boiling point and boiling range:

Flash point/flash point range:

Evaporation rate:

No data available

No data available

No data available

Flammability: This material is combustible, but will not ignite readily.

Explosion limits: No data available

Vapor pressure: negligible

Vapor density:

Density:

No data available
1.43 g/cm³

Water solubility:

negligible

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Thermal decomposition:

No data available

No data available

Viscosity, dynamic: at 68 °F: 8500 - 10500 mPa\*s

## 10. Stability and reactivity

Reactivity: Refer to section: Possibility of hazardous reactions.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions

Exothermic reactions with oxidizing agents, strong bases, strong acids.

Conditions to avoid: Keep away from heat.

Incompatible materials: Strong acids, bases, oxidizing agents.

Hazardous decomposition products:

Emits toxic fumes under fire conditions.

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



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## 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.

Serious 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.

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:

Thermal decomposition can lead to the escape of irritating gases and vapors. May cause

respiratory irritation.

In case of ingestion: May be harmful if swallowed.

After contact with skin: Sensitisation, irritation, redness, pain,

After eye contact: Irritation, redness, pain.

# 12. Ecological information

#### **Ecotoxicity**

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

The product has not been tested. The statement is derived from the properties of the

single components.



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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 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.

#### **Additional information**

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

# 14. Transport information

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

Identification number: UN3077

Proper shipping name: UN 3077, ENVIRONMENTALLY HAZARDOUS

SUBSTANCES, SOLID, N.O.S.

Hazard class or Division:

Packing Group:

Labels:

9

Special provisions: 8, 146, 335, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33

Packaging – Exceptions: 155
Packaging – Non-bulk: 213
Packaging – Bulk: 240
Quantity limitations – Passenger aircraft / rail:

No limit

Quantity limitations – Cargo only: No limit

Vessel stowage – Location:





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Sea transport (IMDG)

UN number: UN 3077

Proper shipping name: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Bisphenol epoxy resins)

Class or division, Subsidary risk: Class 9, Subrisk -

Packing Group:

EmS: F-A, S-F

Special provisions: 274, 335, 966, 967, 969

Limited quantities: 5 kg Excepted quantities: E1

Contaminated packaging - Instructions: P002, LP02
Contaminated packaging - Provisions: PP12

IBC - Instructions: IBC08
IBC - Provisions: B3

Tank instructions - IMO:

Tank instructions - UN: T1, BK2, BK2, BK3

Tank instructions - Provisions: TP33

Stowage and handling: Category A. SW23

Properties and observations:

Marine pollutant:

Segregation group:

none

Air transport (IATA)

UN/ID number: UN 3077

Proper shipping name: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Bisphenol epoxy resins)

Class or division, Subsidary risk: Class 9
Packing Group:

Hazard label: Miscellaneous

Excepted Quantity Code: E1

Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y956 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg
Cargo Aircraft only: Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg

Special provisions: A97 A158 A179 A197

Emergency Response Guide-Code (ERG): 9L



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## Infusioncoat 1A

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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.

Talcum: Carcinogen Status:

IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
NIOSH Recommendations:

Occupational Health Guideline: 0584

1,4-bis(2,3-Epoxypropoxy)butane: TSCA: listed

Carbon: Carcinogen Status:

IARC Rating: Group 2B OSHA Carcinogen: not listed NTP Rating: not listed NIOSH Recommendations:

Occupational Health Guideline: 0102

Alkenes, C>10: EPA-List of inert pesticide ingredients (4B): listed

#### 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

Carbon: California Proposition 65: cancer

Rhode Island HSL: listed

#### National regulations - Great Britain

Hazchem-Code: 2Z

#### 16. Other information

Text for labeling: Contains < 60 % Bisphenol A epoxy resin, < 30 % Reaction product:

Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700), <

10 % 1,4-bis(2,3-Epoxypropoxy)butane. Safety data sheet available on request.

Hazard rating systems: NFPA Hazard Rating:

1 0

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

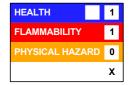
Health: 1 (Slight) Flammability: 1 (Slight) Physical Hazard: 0 (Minimal)

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.

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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## Infusioncoat 1B

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## 1. Product and company identification

#### **Product identifier**

Trade name: Infusioncoat 1B

#### 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

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

Telephone: +1 714.899.8100 Telephone: +352 582.282 E-mail: airtech@airtechintl.com E-mail: sales@airtech.lu

Tygavac Advanced Materials Ltd. Airtech Asia Ltd.

The Causeway No. 161 of Anyuan Rd

Broadway Business Park Chagugang County Chadderton, Oldham Wuqing District

OL9 9XD United Kingdom
Website: www.tygavac.co.uk
Telephone: +44 161.947.1610
Dept. responsible for information:

Telephone: +44 161.947.1610 Dept. responsible for information: E-mail: sales@tygavac.co.uk Telephone: +86 22 8862 9800

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: liquid

Color: amber amine odor

Classification: Acute Toxicity - oral - Category 3; Skin Corrosion - Category 1A; Eye Damage -

Category 1; Sensitization - skin - Category 1;

Specific Target Organ Toxicity (Repeated Exposure) - Category 2;

Aquatic toxicity - chronic - Category 2;

Hazard symbols:

Odor:









Signal word: Danger



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### Infusioncoat 1B

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Hazard statements: Toxic if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

Precautionary statements:

Do not breathe vapors.

Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product.

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

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.

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.

Immediately call a POISON CENTER/doctor.
Specific treatment (see ' First aid ' on this label).

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

Take off contaminated clothing and wash it before reuse.

Wash contaminated clothing before reuse.

Collect spillage. 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

May be harmful in contact with skin. May be harmful if inhaled. Special danger of slipping by leaking/spilling product. see section 11: Toxicological information

# 3. Composition / Information on ingredients

Chemical characterization:

A mixture of amines and resin

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 28480-77-5	alpha-(4- Aminocyclohexyl)-p- toluidine	< 65 %	Acute Toxicity - oral - Category 3. Skin Corrosion - Category 1B. Sensitization - skin - Category 1.

#### 4. First aid measures

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



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In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. 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.

Immediately get medical attention.

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

apart. Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Immediately get medical attention. Never give anything by mouth to an unconscious

person. Rinse mouth immediately and drink plenty of water. Do not induce vomiting

without medical assistance.

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

In case of inhalation:

Strongly irritant. The following symptoms may occur: Sore throat, headache, fatigue,

dizziness, cough, nausea, vomiting.

In case of ingestion:

Toxic if swallowed. Burns in the mouth, pharynx, oesophagus, and gastrointestinal tract. Other symptoms: Danger of stomach perforation. Abdominal pain, nausea, sore throat,

vomiting, thirst and coma.

After contact with skin: Burns, causes poorly healing wounds. After eye contact: Redness, pain, Danger of loss of sight.

#### Information to physician

Treat symptomatically.

## 5. Fire fighting measures

Flash point/flash point range:

> 199.4 °F

Auto-ignition temperature:

No data available

Suitable extinguishing media:

Water spray jet, dry chemical powder, foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

#### Specific hazards arising from the chemical

This material is combustible, but will not ignite readily.

Harmful and/or toxic vapors may be produced in the event of thermal decomposition. In case of fire may be liberated: aldehydes, acids, nitrogen oxides (NOx), phenols, Nitrosamine, carbon monoxide and carbon dioxide. Formation of numerous unknown

compounds is possible.

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. Use a water fog to control vapors. Do not allow fire water to penetrate into surface or ground water.



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#### 6. Accidental release measures

Personal precautions: Avoid the formation of aerosol/vapors. Avoid inhalation and contact with skin and eyes.

Wear appropriate protective equipment. Ensure adequate ventilation, especially in

confined areas. Keep unprotected people away.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. If necessary notify

appropriate authorities.

Methods for clean-up: 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. Thoroughly

clean surrounding area. Dispose of waste according to applicable legislation.

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. Execute works under fume

hood.

Avoid contact with skin, eyes, and clothing. Avoid the formation of aerosol. Do not

breathe vapor/aerosol/fog. Do not ingest.

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.

#### **Storage**

Requirements for storerooms and containers:

Store container tightly closed in a dry and cool place. Do not drop, drag or bang the

container. Store containers in upright position.

Protect from moisture contamination. Store in a well-ventilated place. Keep away from

sources of ignition. Keep away from incompatible materials.

Hints on joint storage: Incompatible materials: Nitrous acid, Sodium hypochlorite, peroxides, strong acids,

mineral acids, strong oxidizing agents. Keep away from food and drinks.

# 8. Exposure controls / personal protection

#### **Engineering controls**

Provide adequate ventilation, and local exhaust as needed. Execute works under fume

hood.

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 Protective work clothing, chemical resistant safety shoes.

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

Glove material: Rubber or neoprene

Layer thickness (recommended): >0.5 mm.

Breakthrough time: not tested.

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



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Respiratory protection: When vapors form, use respiratory protection.

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 immediately all contaminated clothing. Do not breathe vapor/aerosol/fog. Work place should be equipped with a shower and an

eye rinsing apparatus.

When using do not eat, drink or smoke. After work, wash hands and face.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

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

Color: amber

Odor: amine odor
Odor threshold: No data available

pH value: alkaline

Melting point/freezing point: No data available Initial boiling point and boiling range: No data available Flash point/flash point range:  $> 199.4 \, ^{\circ}F$ 

Evaporation rate: No data available

Flammability: This material is combustible, but will not ignite readily.

Explosion limits: No data available

Vapor pressure: negligible

Vapor density: No data available

Density: 0.93 g/mL

Solubility:

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Thermal decomposition:

No data available

No data available

No data available

Additional information: No data available

## 10. Stability and reactivity

Reactivity: May be corrosive to metals.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions

Exothermic reactions with incompatible materials.

Conditions to avoid: Protect from excessive heat. Avoid open flames. Avoid the formation of aerosol/vapors.

Incompatible materials: Nitrous acid, Sodium hypochlorite, peroxides, strong acids, mineral acids, strong

oxidizing agents, metals.



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Hazardous decomposition products:

aldehydes, acids, nitrogen oxides (NOx), phenols, Nitrosamine, carbon monoxide and

carbon dioxide.

Formation of numerous unknown compounds is possible.

Thermal decomposition: No data available

## 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): Acute Toxicity - oral - Category 3 = Toxic if swallowed.

ATEmix (calculated): 50<ATE<300.

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

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

Skin corrosion/irritation: Skin Corrosion -

Category 1A = Causes severe skin burns and eye damage.

Serious eye damage/irritation: Eye Damage - Category 1 = Causes serious eye damage.

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): Specific Target Organ Toxicity

(Repeated Exposure) -

Category 2 = May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Lack of data.

Other information:

Amines (vapors): May cause damage to liver and kidneys through prolonged or repeated exposure. Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure.

#### **Symptoms**

In case of inhalation:

Strongly irritant. The following symptoms may occur: Sore throat, headache, fatigue, dizziness, cough, nausea, vomiting.

In case of ingestion:

Toxic if swallowed. Burns in the mouth, pharynx, oesophagus, and gastrointestinal tract. Other symptoms: Danger of stomach perforation. Abdominal pain, nausea, sore throat, vomiting, thirst and coma.

After contact with skin: Burns, causes poorly healing wounds. After eye contact: Redness, pain, Danger of loss of sight.

# 12. Ecological information

#### **Ecotoxicity**

Aquatic toxicity: 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 enter into ground-water, surface water 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.

## 14. Transport information

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

Identification number: UN2922

Proper shipping name: UN 2922, CORROSIVE LIQUIDS, TOXIC,

N.O.S.

(4,4'-Methylenebis(cyclohexylamine) and alpha-(4-Aminocyclohexyl)-p-toluidine)

Hazard class or Division:

Packing Group:

Labels:

Symbols:

8

8, 6.1

Special provisions: B3, IB2, T7, TP2

Packaging – Exceptions: 154
Packaging – Non-bulk: 202
Packaging – Bulk: 243
Quantity limitations – Passenger aircraft / rail:

1 L
Quantity limitations – Cargo only: 30 L
Vessel stowage – Location: B
Vessel stowage – Other: 40







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Sea transport (IMDG)

UN number: UN 2922

Proper shipping name: UN 2922, CORROSIVE LIQUID, TOXIC, N.O.S.

(4,4'-Methylenebis(cyclohexylamine) and alpha-(4-Aminocyclohexyl)-p-toluidine)

Class or division, Subsidary risk: Class 8, Subrisk 6.1

Packing Group:

EmS: F-A, S-B
Special provisions: 274
Limited quantities: 1 L
Excepted quantities: E2
Contaminated packaging - Instructions: P001
Contaminated packaging - Provisions: IBC - Instructions: IBC02
IBC - Provisions: -

Tank instructions - IMO:

Tank instructions - UN:

Tank instructions - Provisions:

TP2

Stowage and handling: Category B. SW2

Properties and observations: Causes burns to skin, eyes and mucous membranes. Toxic if swallowed, by

skin contact or by inhalation.

Marine pollutant: yes
Segregation group: none

Air transport (IATA)

UN/ID number: UN 2922

Proper shipping name: UN 2922, CORROSIVE LIQUID, TOXIC, N.O.S.

(4,4'-Methylenebis(cyclohexylamine) and alpha-(4-Aminocyclohexyl)-p-toluidine)

Class or division, Subsidary risk: Class 8, Subrisk 6.1

Packing Group:

Hazard label: Corrosive & Toxic

Excepted Quantity Code: E2

Passenger and Cargo Aircraft: Ltd.Qty.: Passenger and Cargo Aircraft: Deck.Instr. Y840 - Max. Net Qty/Pkg. 0.5 L Passenger and Cargo Aircraft: Pack.Instr. 851 - Max. Net Qty/Pkg. 1 L Pack.Instr. 855 - Max. Net Qty/Pkg. 30 L

Special provisions: A3 A803

Emergency Response Guide-Code (ERG): 8P

# 15. Regulatory information

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

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

National regulations - Great Britain

Hazchem-Code: 2X

## 16. Other information

Text for labeling: Contains < 65 % alpha-(4-Aminocyclohexyl)-p-toluidine. Safety data sheet available on

request.



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Hazard rating systems: N

3 1

NFPA Hazard Rating: Health: 3 (Serious) Fire: 1 (Slight) Reactivity: 1 (Slight) HMIS Version III Rating: Health: 3 (Serious) Flammability: 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

Physical Hazard: 1 (Slight)

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.

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.

