

Safety Data Sheet

Version 2.1
Revision Date 01/26/2015

SDS Number 300000008406
Print Date 06/06/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ANCAMINE[®] K61B Curing Agent

Chemical formula : C39 H75 N3 O6

Product Use Description : Curing Agent

Manufacturer/Importer/Distributor : Air Products and Chemicals, Inc
7201 Hamilton Blvd.
Allentown, PA 18195-1501
GST No. 123600835 RT0001
QST No. 102753981 TQ0001

Telephone : 1-610-481-4911 Corporate
1-800-345-3148 Chemicals Cust Serv
1-800-752-1597 Gases/Electronics Cust Serv

Emergency telephone number (24h) : 800-523-9374 USA
+1 610 481 7711 International

2. HAZARDS IDENTIFICATION

GHS classification

Skin irritation - Category 2
Eye irritation - Category 2A

GHS label elements

Hazard pictograms/symbols



Signal Word: Warning

Hazard Statements:

H315:Causes skin irritation.
H319:Causes serious eye irritation.

Safety Data Sheet

Version 2.1

Revision Date 01/26/2015

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Precautionary Statements:

- Prevention : P264:Wash hands thoroughly after handling.
P280:Wear eye protection/face protection.
P280e:Wear protective gloves.
- Response : P302+P352 :IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 :IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 :If skin irritation occurs: Get medical advice/attention.
P337+P313 :If eye irritation persists: Get medical advice/attention.
P362 :Take off contaminated clothing and wash before re use.

Hazards not otherwise classified

Keep away from heat and sources of ignition.
Moderate skin irritant.
Moderate eye irritant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Tris[(dimethylamino)methyl]phenol tri(2-ethylhexoate), 2,4,6-	51365-70-9	100 %

CHEMICAL FAMILY: Tertiary Amine

4. FIRST AID MEASURES

- General advice : Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
- Eye contact : Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.
- Skin contact : Wash off immediately with plenty of water for at least 20 minutes. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay.
- Ingestion : Prevent aspiration of vomit. Turn victim's head to the side.
- Inhalation : Move to fresh air.
- Most important symptoms/effects - acute : Skin disorders and Allergies. Adverse skin effects (such as rash, irritation or corrosion). Adverse eye effects (such as conjunctivitis or corneal damage). Eye

Safety Data Sheet

Version 2.1

Revision Date 01/26/2015

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and delayed

disease.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam.
Carbon dioxide (CO₂).
Dry chemical.
Dry sand.
Limestone powder.
- Specific hazards : May generate ammonia gas. May generate toxic nitrogen oxide gases.
Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces noxious and toxic fumes.
- Special protective equipment for fire-fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions, Protective Equipment, and Emergency Procedures : Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.
- Environmental precautions : Construct a dike to prevent spreading. Construct a dike to prevent spreading.
- Methods for cleaning up : Contact Air Products' Emergency Response Center for advice. Place in appropriate chemical waste container.
- Additional advice : If possible, stop flow of product.

7. HANDLING AND STORAGE

Handling

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid contact with eyes. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage

Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.

Technical measures/Precautions

Do not store in reactive metal containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Safety Data Sheet

Version 2.1

Revision Date 01/26/2015

SDS Number 300000008406

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Engineering measures

Provide readily accessible eye wash stations and safety showers.

Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal protective equipment

Respiratory protection : Not required for properly ventilated areas.

Hand protection : Neoprene gloves.
Butyl-rubber
Nitrile rubber.
Impervious gloves.
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Chemical resistant goggles must be worn.

Skin and body protection : Long sleeve shirts and trousers without cuffs.

Environmental exposure controls : Construct a dike to prevent spreading.

Special instructions for protection and hygiene : Discard contaminated leather articles. Provide readily accessible eye wash stations and safety showers. Wash hands at the end of each workshift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid. Amber.

Odor : Ammoniacal.

Odor threshold : No data available.

pH : No data available.

Melting point/range : No data available.

Boiling point/range : > 392 F (> 200 C)

Flash point : > 275 F (> 135 C)

Evaporation rate : No data available.

Safety Data Sheet

Version 2.1

Revision Date 01/26/2015

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Flammability (solid, gas)	: Not applicable.
Upper/lower explosion/flammability limit	: Not applicable.
Vapor pressure	: < 0.01 mmHg at 70 °F (21 °C)
Water solubility	: 0.025 g/l
Relative vapor density	: 86.2025
Relative density	: 0.96 (water = 1)
Partition coefficient (n-octanol/water)	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: 600 mPa.s at 77 °F (25 °C)
Molecular Weight	: 681 g/mol
Density	: 59.931 lb/ft ³ (0.96 g/cm ³) at 70 °F (21 °C)

10. STABILITY AND REACTIVITY

Chemical Stability	: Stable under normal conditions.
Conditions to avoid	: No data available.
Materials to avoid	: Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Oxidizing agents.
Hazardous decomposition products	: Nitric acid. Ammonia Nitrogen oxides (NO _x). Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon monoxide. Carbon dioxide (CO ₂).
Possibility of hazardous Reactions/Reactivity	: No data available.

11. TOXICOLOGICAL INFORMATION

Safety Data Sheet

Version 2.1

Revision Date 01/26/2015

SDS Number 300000008406

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11.1 Information on toxicological effects

Likely routes of exposure

- Effects on Eye : Causes eye irritation.
- Effects on Skin : Causes skin irritation.
- Inhalation Effects : No data available.
- Ingestion Effects : No data available.
- Symptoms : No data available.

Acute toxicity

- Acute Oral Toxicity : LD50 : 7,500 mg/kg Species : Rat.
- Inhalation : No data is available on the product itself.
- Acute Dermal Toxicity : LD50 : > 2,000 mg/kg Species : Rat.
Method : Estimated.
- Skin corrosion/irritation : Moderate skin irritation.
- Serious eye damage/eye irritation : Moderate eye irritation.
- Sensitization. : No data available.

Chronic toxicity or effects from long term exposures

- Carcinogenicity : No data available.
- Reproductive toxicity : No data is available on the product itself.
- Germ cell mutagenicity : No data is available on the product itself.
- Specific target organ systemic toxicity (single exposure) : No data available.
- Specific target organ systemic toxicity (repeated exposure) : No data available.
- Aspiration hazard : No data available.

Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1

Safety Data Sheet

Version 2.1

Revision Date 01/26/2015

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percent or greater. Skin disorders and Allergies., Adverse skin effects (such as rash, irritation or corrosion)., Adverse eye effects (such as conjunctivitis or corneal damage)., Eye disease.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity : No data is available on the product itself.

Toxicity to other organisms : No data available.

Persistence and degradability

Biodegradability : No data is available on the product itself.

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : Contact supplier if guidance is required.

Contaminated packaging : Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

Safety Data Sheet

Version 2.1

Revision Date 01/26/2015

SDS Number 300000008406

Print Date 06/06/2015

TDG

Not dangerous goods

Further Information

Not dangerous goods The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact an Air Products customer service representative.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA) 12(b) Component(s):

None.

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Not on Inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification

Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level

None.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

16. OTHER INFORMATION

HMIS Rating

Health : 2
Flammability : 1
Physical hazard : 0

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For additional information, please visit our Product Stewardship web site at
<http://www.airproducts.com/productstewardship/>
