

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: ANCAMINE K54

Chemical name:
2,4,6-Tris(dimethylaminomethyl)phenol

Other means of identification
CAS Number: 90-72-2

Recommended restrictions
Recommended use: Curing agents. Catalyst
Restrictions on use: Not determined.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation
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Parsippany, NJ 07054
USA

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E-mail : product-regulatory-services@evonik.com

Emergency telephone number:
24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)
Emergency : +1 800 681 9531 (CHEMTREC MEXICO)
+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin corrosion	Category 1C
Serious Eye Damage/Eye Irritation	Category 1

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement:	Causes severe skin burns and eye damage.
Precautionary Statements	
Prevention:	Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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. Wash contaminated clothing before reuse.
Storage:	Store locked up.
Disposal:	Dispose of contents/ container to an approved waste disposal plant.
Hazard(s) not otherwise classified (HNOC):	None.

3. Composition/information on ingredients

Chemical name:

2,4,6-Tris(dimethylaminomethyl)phenol

Substances

Chemical Identity	CAS number	Content in percent (%) [*]
2,4,6-Tris(dimethylaminomethyl)phenol	90-72-2	<90%
Bis[(dimethylamino)methyl]phenol	71074-89-0	<15%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Description of necessary first-aid measures

General information:	Seek medical advice. If breathing is irregular or stopped, administer artificial respiration.
Inhalation:	Move to fresh air.
Skin Contact:	Wash off immediately with soap and plenty of water. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing.
Eye contact:	Rinse immediately with plenty of water for at least 15 minutes. Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

Ingestion: Prevent aspiration of vomit. Turn victim's head to the side. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Personal Protection for First-aid Responders: Use personal protective equipment., Wear self-contained breathing apparatus for firefighting if necessary. Avoid contact with skin., A face shield should be worn.

Most important symptoms/effects, acute and delayed

Symptoms: Up to now no symptoms are known.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-fighting measures

General Fire Hazards: Do not allow run-off from fire fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Carbon Dioxide. Dry chemical. Dry sand. Limestone powder Alcohol resistant foam.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary. Avoid contact with skin. A face shield should be worn.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing.

Accidental release measures: If possible, stop flow of product.

Methods and material for containment and cleaning up: Place in appropriate chemical waste container. Call Emergency Response number for advice. Approach suspected leak areas with caution.

Environmental Precautions: Construct a dike to prevent spreading.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Safe handling advice: Use personal protective equipment. Discard contaminated leather articles. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash hands at the end of each workshift and before eating, smoking or using the toilet. Avoid contact with skin and eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations.

Contact avoidance measures: No data available.

Hygiene measures: Provide readily accessible eye wash stations and safety showers.

Storage

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

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Appropriate Engineering Controls Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection: Full face shield with goggles underneath.

Skin Protection

Hand Protection:

Additional Information: 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. Additional Information: Butyl rubber., Nitrile rubber., Neoprene gloves, Impervious gloves

Skin and Body Protection:

No specific recommendations. Slicker Suit. Impervious clothing Full rubber suit (rain gear). Rubber or plastic boots

Respiratory Protection: Not required for properly ventilated areas. Not required for properly ventilated areas.

Hygiene measures: Provide readily accessible eye wash stations and safety showers.

9. Physical and chemical properties

Appearance

Physical state: liquid

Form: liquid

Color:	light yellow
Odor:	amine-like
Odor Threshold:	No data available.
pH:	11.3 (as aqueous solution)
Freezing point:	-20 °C (OPPTS 830.7200)
Boiling Point:	156 °C (1,013 hPa) (EPA OPPTS 830.7220)
Flash Point:	149 °C (EC Method A.9)
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	0.075 hPa (25 °C) (OECD Test Guideline 104)
Vapor density (air=1):	No data available.
Density:	0.98 g/cm ³ (25 °C)
Relative density:	0.98 (25 °C)
Solubility(ies)	
Solubility in Water:	850 g/l (20 °C, OPPTS 830.7840)
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	-0.660
Self Ignition Temperature:	382 °C (EU Method A.15)
Decomposition Temperature:	No data available.
Kinematic viscosity:	200 mm ² /s (20 °C)
Dynamic viscosity:	No data available.
Other information	
Explosive properties:	No data available.
Oxidizing properties:	No data available.
Minimum ignition temperature:	No data available.

10. Stability and reactivity

Reactivity:	see section "Possibility of hazardous reactions"
Chemical Stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Incompatible Materials:	Organic acids (i.e. acetic acid, citric acid etc.). Mineral Acid Sodium hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents.
Hazardous Decomposition Products:	Nitric acid. Ammonia Nitrogen Oxides Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon Monoxide. Carbon Dioxide.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	No data available.
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Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): 2,169 mg/kg Based on available data, the classification criteria are not met.

Dermal

Product: No data is available on the product itself.

Inhalation

Product: No data is available on the product itself.

Repeated dose toxicity

Product: NOAEL (Rat, Oral): 15 mg/kg

Skin Corrosion/Irritation

Product: OECD Test Guideline 404 Skin corrosion/irritation - Category 1C Corrosive in an in vitro test.

Serious Eye Damage/Eye Irritation

Product: Corrosive to the eyes of a rabbit.

Respiratory or Skin Sensitization

Product: Not a respiratory sensitizer Component of this product has been found to cause mild skin sensitization in guinea pigs. Not classified due to data which are conclusive although insufficient for classification.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity
In vitro

Product: Bacterial reverse mutation assay (OECD Test Guideline 471): negative
 Chromosome aberration test in vitro (OECD Test Guideline 473): Non clastogenic
 In vitro mammalian cell gene mutation test (OECD Test Guideline 476): none mutagenic / genotoxic effects

In vivo

Product: No data available.

Reproductive toxicity

Product: no evidence of reproductiontoxic properties no evidence of teratogenic properties

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects:

In deviation from the available data classification of the product proceeded in conformity with Annex VI of EC Regulation 1272/2008.

12. Ecological information
Ecotoxicity:
Acute hazards to the aquatic environment:
Fish

Product: LC 50 (Cyprinus carpio (Carp), 96 h): 175 mg/l

Aquatic Invertebrates

Product: EC 50 (Palaeomonetes vulgaris (Grass shrimp), 96 h): 718 mg/l

Chronic hazards to the aquatic environment:
Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: EC 50 (Desmodesmus subspicatus (green algae), 72 h): 84 mg/l
 NOEC (Desmodesmus subspicatus (green algae), 72 h): 6.25 mg/l

Persistence and Degradability
Biodegradation

International Regulations**IATA-DGR**

UN/ID No. : UN 2735

Proper shipping name : Amines, liquid, corrosive, n.o.s.
(Tris-2,4,6-(dimethylaminomethyl)phenol)

Class : 8

Packing group : III

Labels : 8

Packing instruction (cargo aircraft) : 856

Packing instruction (passenger aircraft) : 852

IMDG-Code

UN number : UN 2735

Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.
(Tris-2,4,6-(dimethylaminomethyl)phenol)

Class : 8

Packing group : III

Labels : 8

EmS Code : F-A, S-B

Marine pollutant : no

Remarks : Keep separate from acids.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information**US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**

Serious eye damage or eye irritation

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**SARA 311/312 Hazardous Chemical****Chemical Identity****Threshold Planning Quantity****SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations**US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

US TSCA Inventory:	Included on Inventory.
EU EINECS List:	On or in compliance with the inventory
Canada DSL Inventory List:	Included on Inventory.
Australia AICS:	Included on Inventory.
Japan (ENCS) List:	Included on Inventory.
Korea Existing Chemicals Inv. (KECI):	Included on Inventory.
China Inv. Existing Chemical Substances:	Included on Inventory.
Philippines PICCS:	Included on Inventory.

16. Other information, including date of preparation or last revision
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HMIS Hazard ID

Health	<input style="width: 30px;" type="text" value="3"/>
Flammability	<input style="width: 30px;" type="text" value="1"/>
Physical Hazards	<input style="width: 30px;" type="text" value="0"/>
PERSONAL PROTECTION	<input style="width: 30px;" type="text"/>

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 03/18/2019

Version #: 1.0

Further Information: No data available.

Revision Information: Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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