

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: ANCAMINE K 54
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 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 or doctor/ physician. Wash contaminated clothing before reuse.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.

3. Composition/information on ingredients

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

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
2,4,6-tris(dimethylaminomethyl)phenol		90-72-2	<90%

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

Composition information of impurities and stabilizers

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
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.

Composition Comments: Chemical family Mannich Base

The exact concentration has been withheld as a trade secret.

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:	No data available.

Most important symptoms and effects, both acute and delayed

Symptoms:	corrosive effects
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.
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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.
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Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Carbon Dioxide. Dry chemical. Dry sand. Limestone powder Alcohol resistant foam. Water spray.
Unsuitable extinguishing media:	No data available.

Special hazards arising from the substance or mixture:	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.
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Special protective equipment and precautions for firefighters

Special fire fighting procedures:	No data available.
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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): No data available.

Safe handling advice: Use personal protective equipment. Wash at the end of each work shift and before eating, smoking and using the toilet. Wear suitable protective clothing. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Avoid inhalation of vapors/spray and contact with skin and eyes. Wear appropriate respiratory protection equipment during spray applications (formation of aerosols). See Section 8 of the SDS for Personal Protective Equipment.

Contact avoidance measures: No data available.

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.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear approved safety goggles. Wear face shield if there is risk of splashes.

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.

Skin and Body Protection: Chemical resistant clothing

Respiratory Protection: Not required for properly ventilated areas. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Spraying increases the risk of hazardous exposure. In atmospheres where the material is sprayed, workers should avoid contact with aerosols through proper engineering controls such as exhaust ventilation and/or proper protective equipment such as a full-face air-supplied respirators.

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

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Pale yellow
Odor: amine-like
Odor Threshold: No data available., Not required by safety or application considerations.

Freezing point: -4 °F/-20 °C (OPPTS 830.7200)
Boiling Point: 313 °F/156 °C (1,013 hPa) (EPA OPPTS 830.7220)

Flammability: No data available.
Upper/lower limit on flammability or explosive limits

Explosive limit - upper: see Explosiveness
Explosive limit - lower: see Explosiveness

Flash Point: 300 °F/149 °C (EC Method A.9)
Self Ignition Temperature: 720 °F/382 °C (1,013 hPa, EC Method A.15)

Decomposition Temperature: No decomposition in the field of application.

pH: 11.3 (as aqueous solution)

Viscosity

Dynamic viscosity: No data available.
Kinematic viscosity: 200 mm²/s (68 °F/20 °C)
Flow Time: No data available.

Solubility(ies)

Solubility in Water: 850 g/l (68 °F/20 °C, OPPTS 830.7840)

Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	-0.660
Vapor pressure:	0.075 hPa (77 °F/25 °C) (OECD 104)
Relative density:	0.98 (77 °F/25 °C)
Density:	0.98 g/cm ³ (77 °F/25 °C)
Bulk density:	No data available.
Relative vapor density:	No data available.

Particle characteristics

Particle Size:	No data available.
Particle Size Distribution:	No data available.
Specific surface area:	No data available.
Surface charge/Zeta potential:	No data available.
Shape:	No data available.
Crystallinity:	No data available.
Surface treatment:	No data available.

Other information

Explosive properties:	Not explosive
Oxidizing properties:	The substance or mixture is not classified as oxidizing.
Minimum ignition temperature:	No data available.
Evaporation Rate:	No data available. Not required by safety or application considerations.

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 toxicological effects****Information on likely routes of exposure**

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

Eye contact: No data available.

Ingestion: No data available.

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat, Female, Male): 2,169 mg/kg (OECD 401)

Dermal

Product: Based on available data, the classification criteria are not met.

Inhalation

Product: No data is available on the product itself.

Repeated dose toxicity

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

Skin Corrosion/Irritation

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

Serious Eye Damage/Eye Irritation

Product: Risk of serious damage to eyes. Risk of serious damage to eyes.

Respiratory or Skin Sensitization

Product: Maximization Test, OECD 406 (Guinea Pig): Not a skin sensitizer.

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), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

No evidence of mutagenic activity was observed in a bacterial mutation assay., Chromosome Aberration Assay: Negative (Activated and Nonactivated)

In vitro

Product: Bacterial reverse mutation assay (OECD 471): negative;
Chromosomal aberration (OECD 473): Non clastogenic;
In vitro mammalian cell gene mutation test (OECD 476): no evidence of mutagenic 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.

Product name: ANCAMINE K 54

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: Not classified

Information on health hazards**Other hazards**

Product: No data available.

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: LC 50 (Daphnia magna, 96 h): 718 mg/l

Toxicity to Aquatic Plants

Product: EC 50 (Desmodemus subspicatus (Scenedesmus subspicatus), 72 h): 84 mg/l (OECD 201)

Toxicity to microorganisms

Product: NOEC (activated sludge, 28 d): 2 mg/l (OECD 301 D)

Chronic hazards to the aquatic environment:**Fish**

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Toxicity to microorganisms

Product: NOEC (activated sludge, 28 d): 2 mg/l (OECD 301 D)

Persistence and Degradability**Biodegradation**

Product: 4 % (28 d, OECD 301 D), Not readily degradable.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential**Bioconcentration Factor (BCF)**

Product: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: -0.660 21.5 °C Yes

Mobility in soil:

Product No data available.

Results of PBT and vPvB assessment:

Product No data available.

Other adverse effects:

Other hazards

Product: Do not allow to enter soil, waterways or waste water canal. The product is classified as slightly hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters (WwSV)).

13. Disposal considerations

Disposal methods: 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

Domestic regulation

49 CFR

UN/ID/NA number : UN 2735
Proper shipping name : Amines, liquid, corrosive, n.o.s.
(2,4,6-tris(dimethylaminomethyl)phenol)
Class : 8
Packing group : III
Labels : 8
ERG Code : 153
Marine pollutant : no
Remarks : Keep separate from foodstuffs, luxury foods, feedstuffs

International Regulations

IATA-DGR

UN/ID No. : UN 2735
Proper shipping name : Amines, liquid, corrosive, n.o.s.
(2,4,6-tris(dimethylaminomethyl)phenol)
Class : 8
Packing group : III
Labels : 8
Packing instruction (cargo aircraft) : 856
Packing instruction (passenger aircraft) : 852

IMDG-Code

UN number or ID number : UN 2735
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.

(2,4,6-tris(dimethylaminomethyl)phenol)

Class	:	8
Packing group	:	III
Labels	:	8
EmS Code	:	F-A, S-B
Marine pollutant	:	no
Remarks	:	Keep separate from foodstuffs, luxury foods, feedstuffs 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), as amended

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

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

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.

Product name: ANCAMINE K 54

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:

Australia AICS:	On or in compliance with the inventory	
Canada DSL Inventory List:	On or in compliance with the inventory	
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	
Japan (ENCS) List:	On or in compliance with the inventory	
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	
Philippines PICCS:	On or in compliance with the inventory	
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Pre-registration is requested for specific importer.
US TSCA Inventory:	On or in compliance with the inventory	Commercial Status: Active
EINECS, ELINCS or NLP:	On or in compliance with the inventory	EU-REACH compliant for Evonik Operations GmbH and its affiliates as EU manufacturer/EU importer.

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

Health	3
Flammability	1
Physical Hazards	0
PERSONAL PROTECTION	

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

Issue Date: 09/14/2021

Version #: 2.0

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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