

## SAFETY DATA SHEET

Revision Date 18-Dec-2025 Revision Number 5

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

## 1. Identification

Product Name N-Ethylaniline

Cat No.: AC118040000; AC118040025; AC118041000; AC118045000

CAS No 103-69-5

**Synonyms** Anilinoethane; Ethylaniline; N-Ethylaminobenzene

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
Fair Lawn, NJ 07410

Tel: (201) 796-7100

## **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

## Classification

This chemical is considered hazardous according to [US] OSHA (29 CFR 1910.1200, 2024)

Flammable liquids

Acute oral toxicity

Category 3

Acute dermal toxicity

Category 3

Acute Inhalation Toxicity - Vapors

Specific target organ toxicity - (repeated exposure)

Category 2

Category 2

Target Organs - Blood, Hematopoietic System.

## Label Elements

#### Signal Word

Danger

#### **Hazard Statements**

Combustible liquid

Fatal if inhaled

May cause damage to organs through prolonged or repeated exposure

Toxic if swallowed or in contact with skin



## **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear respiratory protection

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep cool

#### Response

Get medical attention/advice if you feel unwell

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER or doctor

#### Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor if you feel unwell

Take off immediately all contaminated clothing

Take off contaminated clothing and wash before reuse

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Rinse mouth

**Fire** 

In case of fire: Use CO2, dry chemical, or foam to extinguish

## **Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### **Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

None identified

## Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available

## 3. Composition/information on Ingredients

Component	CAS No	Weight %
N-Ethylaniline	103-69-5	<=100

## 4. First-aid measures

**Eye Contact** 

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

**Inhalation** Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen.

If not breathing, give artificial respiration. Immediate medical attention is required.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink

plenty of water. If possible drink milk afterwards.

Most important symptoms and

effects

Notes to Physician

Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

Unsuitable Extinguishing Media No information available

Flash Point 85 °C / 185 °F

**Method** - No information available

Autoignition Temperature 480 °C / 896 °F

**Explosion Limits** 

**Upper** 10% **Lower** 1.6%

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

## **Specific Hazards Arising from the Chemical**

Combustible material. Flammable.

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

HealthFlammabilityInstabilityPhysical hazards420N/A

## 6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required.

**Environmental Precautions** See Section 12 for additional Ecological Information.

**Methods for Containment and Clean** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, **Up** sawdust). Keep in suitable, closed containers for disposal.

## 7. Handling and Storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not breathe mist/vapors/spray.

Handle product only in closed system or provide appropriate exhaust ventilation.

Storage. Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away

from heat, sparks and flame. Protect from direct sunlight. Keep under nitrogen.

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Incompatible Materials. Acids. Strong oxidizing agents. Acid anhydrides. Acid chlorides. Carbon dioxide (CO2).

## 8. Exposure controls / personal protection

## **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
N-Ethylaniline		(Vacated) TWA: 2 ppm	IDLH: 100 ppm	
		(Vacated) TWA: 8 mg/m <sup>3</sup>		
		Skin		

Legend

OSHA - Occupational Safety and Health Administration

NIOSH: NIOSH - National Institute for Occupational Safety and Health

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline

respirator in the positive pressure mode with emergency escape provisions.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

**Appearance** 

**Physical State** Liquid Color Light yellow Odorless Odor

**Odor Threshold** No information available

**Property** Values

-63 °C / -81.4 °F **Melting Point/Range Softening Point** No data available **Boiling Point/Range** 205 °C / 401 °F Flash Point 85 °C / 185 °F

Flammability (liquid) Combustible liquid

Flammability (solid,gas) No information available

**Explosion Limits** Lower 1.6 Upper 10

**Autoignition Temperature** 480 °C / 896 °F **Decomposition Temperature** No data available pН No information available Viscosity No data available Water Solubility 50 g/l water (20°C) Solubility in other solvents No information available

Partition Coefficient (n-octanol/water) Component log Pow N-Ethylaniline 2.26

@ 0.4 mbar °C 20 **Vapor Pressure** 

**Density / Specific Gravity** 0.963

 Method Remarks

Method - No information available

On basis of test data

(Air = 1.0)

**Bulk Density**No data available **Vapor Density**4.18 (Air = 1.0)

Particle characteristics Not applicable (liquid)

Other Information

Molecular FormulaC8 H11 NMolecular Weight121.18

## 10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions. Light sensitive. Air sensitive.

**Conditions to Avoid** Exposure to air. Exposure to light. Incompatible products.

Incompatible Materials Acids, Strong oxidizing agents, Acid anhydrides, Acid chlorides, Carbon dioxide (CO2)

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

**Hazardous Polymerization** No information available.

Hazardous Reactions None under normal processing.

## 11. Toxicological information

#### Information on expected route of exposure

InhalationNot an expected route of exposure.IngestionMay be harmful if swallowed.EyesAvoid contact with eyes.

Skin Avoid contact with skin. Harmful in contact with skin.

## Toxicology data for the components

LD50 Dermal LC50 Inf	LD50	LD50 Oral	Component
50 > 2000 mg/kg(Rabbit) LC50 1.13 - 1.44 h	LD50 > 2000	LD50 = 362.7 mg/kg (Rat)	N-Ethylaniline
50 > 2000 mg/kg ( Rabbit )   1.13 - 1.46	LD30 > 2000	LD30 = 302.7 Hig/kg ( Kat )	N-Luiyianiiine

**Toxicologically Synergistic** 

**Products** 

No information available

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity;

The table below indicates whether each agency has listed any ingredient as a carcinogen

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Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
N-Ethylaniline	103-69-5	Not listed				

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

**Target Organs** Blood, Hematopoietic System.

(i) aspiration hazard; No data available

**Other Adverse Effects** The toxicological properties have not been fully investigated. See actual entry in RTECS for

complete information

delayed

Symptoms / effects, both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for

complete information.

This product does not contain any known or suspected endocrine disruptors. **Endocrine Disrupting Properties** 

## 12. Ecological information

**Ecotoxicity** 

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
N-Ethylaniline	EC50: = 98 mg/L, 96h (Scenedesmus subspicatus) EC50: = 190 mg/L, 72h (Scenedesmus subspicatus)		EC50 = 10.3 mg/L 30 min	Not listed

**Persistence and Degradability** No information available

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information available.

Component	log Pow
N-Ethylaniline	2.26

## 13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a **Waste Disposal Methods** 

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

DOT

UN2272 **UN-No Hazard Class** 6.1 **Packing Group** Ш

\_ TDG

UN-No UN2272
Hazard Class 6.1
Packing Group III

IATA

UN-No UN2272

Proper Shipping Name N-ETHYLANILINE

Hazard Class 6.1 Packing Group III

IMDG/IMO

UN-No UN2272

Proper Shipping Name N-ETHYLANILINE

Hazard Class 6.1 Packing Group III

## 15. Regulatory Information

## **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
N-Ethylaniline	103-69-5	Х	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical

Not applicable

Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

#### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
N-Ethylaniline	103-69-5	-	Х	203-135-5	Х	Χ	Х	Х	Χ	KE-13527

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Not a

Health Administration

Not applicable

## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
N-Ethylaniline	X	X	X	-	X

## **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
N-Ethylaniline	103-69-5	-	-	-

Not applicable

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
N-Ethylaniline	103-69-5	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

#### Other International Regulations

	Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Г	N-Ethylaniline	103-69-5	Not applicable	Not applicable	Not applicable	Not applicable

16. Other Information

Prepared By Product stewardship (Regulatory Affairs)

Thermo Fisher Scientific

email - begel.sdsdesk@thermofisher.com

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**Revision Summary** Updated to the U.S. Department of Labor's Occupational Safety and Health Administration

(OSHA) which published its Final Rule in the Federal Register revising the Hazard Communication Standard (HCS/HazCom), 29 CFR 1910.1200 (2024) (HCS §1910.1200,

2024), May 20, 2024, effective July 19, 2024.

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**