

# **SAFETY DATA SHEET**

Creation Date 07-Nov-2010 Revision Date 07-Jun-2022 Revision Number 3

### 1. Identification

Product Name 2-Ethylhexylamine

Cat No. : A10372

**CAS No** 104-75-6

Synonyms No information available

Recommended Use Laboratory chemicals.

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

### Details of the supplier of the safety data sheet

### Company

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com

www.alfa.com

#### **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800)

343-0660.

After normal business hours, call Carechem 24 at (866) 928-0789.

### 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids

Acute oral toxicity

Acute Inhalation Toxicity - Vapors

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Specific target organ toxicity (single exposure)

Category 3

Category 1

Category 1

Category 3

Target Organs - Respiratory system.

### **Label Elements**

### Signal Word

Danger

#### **Hazard Statements**

Flammable liquid and vapor Harmful if swallowed Causes severe skin burns and eye damage May cause respiratory irritation Fatal if inhaled



### **Precautionary Statements**

### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Use only outdoors or in a well-ventilated area

Wear respiratory protection

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

#### Response

Immediately call a POISON CENTER or doctor/physician

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Skin

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

Wash contaminated clothing before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

### Ingestion

Rinse mouth

Do NOT induce vomiting

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

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

Store locked up

# Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
2-Ethylhexylamine	104-75-6	<100

Di(2-ethylhexyl)amine	106-20-7	0.01-0.2

### 4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

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

the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Inhalation If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim

ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh

air. Immediate medical attention is required.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and

effects

Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue

and danger of perforation

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam. Water mist may be used

to cool closed containers. CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point 50 °C / 122 °F

Method - No information available

Autoignition Temperature 295 °C / 563 °F

**Explosion Limits** 

**Upper** 6.00% **Lower** .80%

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

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

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

## **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO2).

# **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. Thermal decomposition can lead to release of irritating gases and vapors.

### NFPA

HealthFlammabilityInstabilityPhysical hazards420N/A

### 6. Accidental release measures

**Personal Precautions** 

Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges.

**Environmental Precautions** 

Methods for Containment and Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.

Up Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Should not be released into the environment.

# 7. Handling and storage

Handling

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

Storage.

Keep away from heat, sparks and flame. Flammables area. Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Incompatible Materials. Acids. Strong oxidizing agents.

## 8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Use explosion-proof

electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers

are close to the workstation location.

Personal Protective Equipment

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

OSHA's eve 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

Physical StateLiquidAppearanceColorlessOdorAmmonia-like

Odor Threshold<br/>pHNo information available<br/>No information availableMelting Point/RangeNo information available<br/>< -70 °C / < -94 °F</th>

Boiling Point/Range 170 °C / 338 °F @ 760 mmHg

Flash Point 50 °C / 122 °F Evaporation Rate No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

 Upper
 6.00%

 Lower
 .80%

Vapor Pressure 1.6 hPa @ 20 °C

Vapor Density4.45Specific Gravity0.780SolubilitySoluble in water

Partition coefficient; n-octanol/water

Autoignition Temperature

Decomposition Temperature

Viscosity

No data available
295 °C / 563 °F
No information available
1.1 mPa s at 20 °C

Molecular FormulaC8 H19 NMolecular Weight129.25

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Stable under normal conditions.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.

Incompatible Materials Acids, Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

**Product Information** 

**Component Information** 

L	Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Γ	2-Ethylhexylamine	LD50 = 450 mg/kg (Rat)	Not listed	LC50 < 1.548 mg/L (Rat) 4 h
	, ,			· ,
ſ	Di(2-ethylhexyl)amine	LD50 = 1640 mg/kg (Rat)	Not listed	LC50 = 0.91 mg/L (Rat) 4 h
				• , ,

Toxicologically Synergistic No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Causes burns by all exposure routes

Sensitization No information available

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

	Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
2-E	Ethylhexylamine	104-75-6	Not listed				
Di(2-	-ethylhexyl)amine	106-20-7	Not listed				

Mutagenic Effects No information available

Reproductive Effects No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

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STOT - single exposure Respiratory system None known STOT - repeated exposure

No information available **Aspiration hazard** 

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

delayed

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

# 12. Ecological information

**Ecotoxicity** 

Persistence and Degradability Persistence is unlikely

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its water solubility.

Component	log Pow
2-Ethylhexylamine	2.82
Di(2-ethylhexyl)amine	7.3

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## Transport information

DOT

UN-No UN2276

**Proper Shipping Name** 2-ETHYLHEXYLAMINE

**Hazard Class Subsidiary Hazard Class** 8 **Packing Group** Ш

TDG

UN2276 **UN-No** 

**Proper Shipping Name** 2-ETHYLHEXYLAMINE

**Hazard Class** 3 **Subsidiary Hazard Class** 8 **Packing Group** Ш

IATA

**UN-No** UN2276

**Proper Shipping Name** 2-ETHYLHEXYLAMINE

**Hazard Class Subsidiary Hazard Class** 8 **Packing Group** Ш

IMDG/IMO

**UN-No** UN2276

**Proper Shipping Name** 2-ETHYLHEXYLAMINE

**Hazard Class** 3 **Subsidiary Hazard Class** 8 **Packing Group** Ш

# 15. Regulatory information

### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
2-Ethylhexylamine	104-75-6	Χ	ACTIVE	-
Di(2-ethylhexyl)amine	106-20-7	Χ	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 Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

Not applicable

International Inventories

TSCA 12(b) - Notices of Export

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
Г	2-Ethylhexylamine	104-75-6	Х	-	203-233-8	Χ	Χ	Х	Х	Х	KE-13782
	Di(2-ethylhexyl)amine	106-20-7	Х	-	203-372-4	Х	Х	Х	Х	Х	KE-05-0210

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

### U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

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
2-Ethylhexylamine	X	X	X	-	-
Di(2-ethylhexyl)amine	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**This product does not contain any DHS chemicals.

### Security

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)
2-Ethylhexylamine	104-75-6	-	-	-
Di(2-ethylhexyl)amine	106-20-7	=	-	=

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)
2-Ethylhexylamine	104-75-6	Not applicable	Not applicable	Not applicable	Not applicable
Di(2-ethylhexyl)amine	106-20-7	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	(2012/18/EC) - (2012/18/EC) - Qualifying Quantities for Major Accident Notification (2012/18/EC) - Qualifying Quantities for Safety Report Requirements		Basel Convention (Hazardous Waste)
2-Ethylhexylamine	104-75-6	Not applicable	Not applicable	Not applicable	Not applicable
Di(2-ethylhexyl)amine	106-20-7	Not applicable	Not applicable	Not applicable	Not applicable

### 16. Other information

Prepared By Health, Safety and Environmental Department

Email: tech@alfa.com

www.alfa.com

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 07-Nov-2010

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**Revision Summary** SDS authoring systems update, replaces ChemGes SDS No. 104-75-6/1.

#### 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**