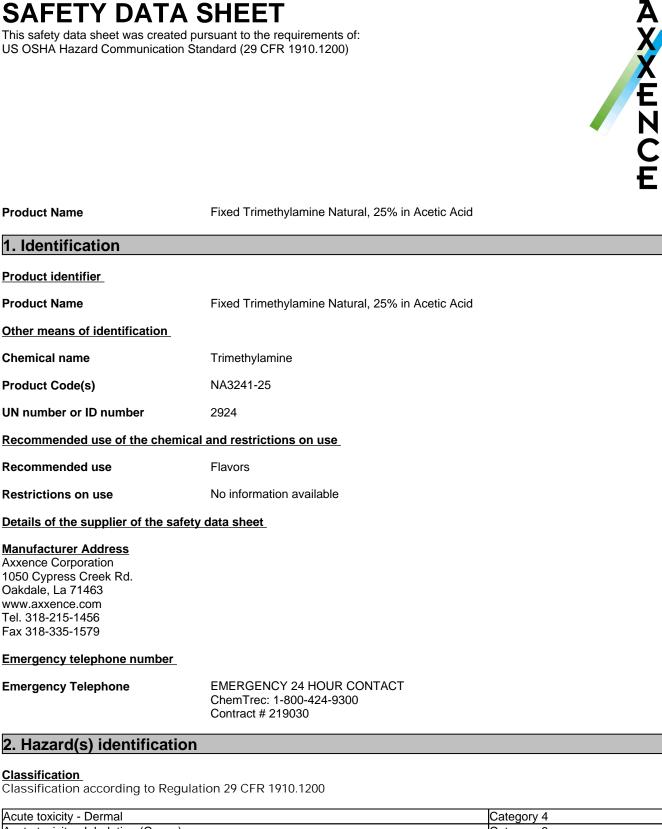
SAFETY DATA SHEET

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



Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Gases)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

Hazards not otherwise classified (HNOC) Not applicable.

Label elements



Danger

Hazard statements

Highly flammable liquid and vapor. Harmful in contact with skin. Harmful if inhaled. Toxic if inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation.

Precautionary Statements - Prevention

Use only outdoors or in a well-ventilated area. Do not breathe dusts or mists. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/clothing and eye/face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use only non-sparking tools. Take action to prevent static discharges. Keep cool. Use explosion-proof electrical/ ventilating/ lighting/ equipment.

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor. 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. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. In case of fire: Use CO2, dry chemical, or foam to extinguish.

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Unknown acute toxicity

75 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

Other information

3. Composition/information on ingredients

Product Name

Fixed Trimethylamine Natural, 25% in Acetic Acid

Substance

Not applicable.

Mixture

Formula

C3H9N

59.11 g/mol

Molecular weight

Chemical name	CAS No.	EC No (EU Index No)	Weight-%	Trade secret
Acetic Acid	64-19-7	200-580-7 (607-002-00-6)	75	-
Trimethylamine	75-50-3	200-875-0 (612-001-00-9)	25	-

4. First-aid measures	
Description of first aid measures	
General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. 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. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention. Immediate medical attention is required.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. 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. Do not breathe vapor or mist.
Most important symptoms and effe	ects, both acute and delayed
Symptoms	Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.
Indication of any immediate medic	al attention and special treatment needed
Note to physicians	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.
5. Fire-fighting measures	
Flash point	11 °C / 51.8 °F

Flammability Limit in Air	
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Suitable Extinguishing Media Large Fire	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the	Risk of ignition. Keep product and empty container away from heat and sources of ignition.
chemical	In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.
Explosion data	
Sensitivity to mechanical impac Sensitivity to static discharge	t None. Yes.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
Special attention to fire and explosion	None

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Other information	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Attention! Corrosive material. Do not breathe vapor or mist. Avoid breathing vapors or mists. Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
Methods and material for containm	ent and cleaning up
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Advice on safe handling	Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Do not breathe vapor or mist.
Conditions for safe storage, inc	uding any incompatibilities

Storage Conditions Purge with Nitrogen after each opening. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e.,

pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Protect from moisture. Keep out of the reach of children. Store away from other materials.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Acetic Acid	TWA: 10 ppm	TWA: 10 ppm	IDLH: 50 ppm
64-19-7	STEL: 15 ppm	TWA: 25 mg/m ³	TWA: 10 ppm
		(vacated) TWA: 10 ppm	TWA: 25 mg/m ³
		(vacated) TWA: 25 mg/m ³	STEL: 15 ppm
			STEL: 37 mg/m ³
Trimethylamine	TWA: 5 ppm	(vacated) TWA: 10 ppm	TWA: 10 ppm
75-50-3	STEL: 15 ppm	(vacated) TWA: 24 mg/m ³	TWA: 24 mg/m ³
		(vacated) STEL: 15 ppm	STEL: 15 ppm
		(vacated) STEL: 36 mg/m ³	STEL: 36 mg/m ³

Appropriate engineering controls

Engineering controls

Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eve/face protection Tight sealing safety goggles. Face protection shield. Hand protection Wear suitable gloves. Impervious gloves. Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Skin and body protection Antistatic boots. Appropriate respiratory protection should be selected and used according to the chemical **Respiratory protection** nature, hazards and use of this product and safety requirements of the local jurisdiction. Do not eat, drink or smoke when using this product. Contaminated work clothing should not **General hygiene considerations** be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Do not breathe vapor or mist.

9. Physical and chemical properties

Information on basic physical and ch	emical properties	
Physical state	Liquid	
Appearance	Clear	
Color	Colorless to light yellow	
Odor ß	oungent, fish-like odor	
Odor threshold	No information available	
		_
Property	Values	Rema
рН	No data available	None
Melting point / freezing point	No data available	None I
Boiling point	134.5 °C / 274.1 °F	None
Flash point	11 °C / 51.8 °F	CC (cl
Evaporation rate	No data available	None
Flammability	No data available	None
Flammability Limit in Air		None
Upper flammability or explosive lin	nits No data available	
Lower flammability or explosive lin	nits No data available	

Remarks • Method

None known None known OCC (closed cup) None known None known None known

Vapor pressure Relative vapor density Relative density Water solubility Solubility(ies) Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Refractive Index	No data available >1.0 1.015 - 1.041 Soluble in water Alcohol, Oil, Propylene Glycol No data available No data available No data available 1.414 - 1.418	None known None known None known None known None known None known None known None known None known
Other information Explosive properties Oxidizing properties Softening point Molecular weight VOC content Liquid Density Bulk density	No information available No information available No information available 59.11 g/mol No information available No information available No information available	
10. Stability and reactivity		
Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials	No information available. Stable under normal conditions. None under normal processing. Heat, flames and sparks. Exposure to air or mois heat. Acids. Bases. Oxidizing agent. s None known based on information supplied.	sture over prolonged periods. Excessive

11. Toxicological information Information on likely routes of exposure

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Product Information	
Inhalation	Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. Toxic by inhalation. May cause irritation of respiratory tract. Harmful by inhalation.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May be absorbed through the skin in harmful amounts. Harmful in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.
Symptoms related to the physical, c	hemical and toxicological characteristics
Symptoms	Redness. Burning. May cause blindness. Coughing and/ or wheezing. Difficulty in breathing.
Acute toxicity	
Numerical measures of toxicity	

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2,299.30 mg/kg
ATEmix (dermal)	1,320.00 mg/kg
ATEmix (inhalation-gas)	2,440.45 ppm
ATEmix (inhalation-dust/mist)	4.30 mg/l
ATEmix (inhalation-vapor)	99,999.00 mg/l

Unknown acute toxicity

75 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

Component Information

	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 = 11.4 mg/L (Rat)4 h		
	Acetic Acid 64-19-7	= 3310 mg/kg (Rat)	= 1060 mg/kg (Rabbit)			
	Trimethylamine 75-50-3	= 1200 mg/kg (Rat)	> 5000 mg/kg (Rat)	>5.9 mg/L (Rat)4 h		

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

Skin corrosion/irritation	Classification based on data available for ingredients. Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye damage. Causes burns.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	No information available.
Target organ effects	Respiratory system, Eyes, Skin, Teeth.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

12. Ecological information						
Ecotoxicity						
Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea		
Acetic Acid 64-19-7	-	LC50: =79mg/L (96h, Pimephales promelas) LC50: =75mg/L (96h, Lepomis macrochirus)	-	EC50: =65mg/L (48h, Daphnia magna)		
Trimethylamine 75-50-3	EC50: =98.8mg/L (72h, Desmodesmus subspicatus) EC50: =74.2mg/L (96h, Desmodesmus subspicatus)	_	-	EC50: =139mg/L (48h, Daphnia magna Straus)		

Persistence and degradability No information available. Bioaccumulation

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment			
Acetic Acid	The substance is not PBT / vPvB PBT assessment does			
	not apply			
Trimethylamine	The substance is not PBT / vPvB PBT assessment does			
	not apply			
Component Information				
Chemical name	Partition coefficient			

64-19-7 1.89 Trimethylamine 1.89 75-80-3 No information available. Other adverse effects No information available. 13. Disposal considerations Disposal methods Waste from residues/mused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not out, puncture or weld containers. California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste. 20T UN number or ID number 2924 Proper shipping name Flarmable liquid, corrosive, n.o.s. (Trimethylamine solution) Taransport hazard class(es) 3 Subsidiary hazard class 8 Packing group II DOT Marine Pollutant NP KIA UN proper shipping name Flarmable liquid, corrosive, n.o.s. (Trimethylamine solution) Subsidiary hazard class 8 Packing group II MDO 2924 UN proper shipping name Flarmable liquid,	Acetic Acic	1	-0.17			
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Legend:	Legend:					

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

US Federal Regulations

<u>SARA 313</u>

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)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Acetic Acid 64-19-7	5000 lb	-	-	Х
Trimethylamine 75-50-3	100 lb	-	-	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)	
Acetic Acid 64-19-7	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ	
Trimethylamine 75-50-3	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ	

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania	
Acetic Acid 64-19-7	Х	Х	Х	
Trimethylamine 75-50-3	Х	Х	Х	

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

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	Ith hazards 3 Ith hazards 3	Flammability Flammability		Instability 0 Physical hazards		cial hazards -			
Key or legend to abbreviations and acronyms used in the safety data sheetLegendSection 8: Exposure controls/personal protectionTWATWA (time-weighted average)STELCeilingMaximum limit valueSk*Stripped averageSter									
Revision Number Revision date Revision Note <u>Disclaimer</u> The information provided in		tion available.	o the best	of our knowledge.	information	and belief at the			

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 Safety Data Sheet