

SAFETY DATA SHEET

Creation Date 04-Jun-2010

Revision Date 26-Mar-2024

Revision Number 3

	1. Identification			
Product Name N,N-Dimethylacetamide dimethyl acetal, stabilized with 5 methanol				
Cat No. :	L01642			
CAS No Synonyms	18871-66-4 1,1-Dimethoxy-N,N-dimethylethylamine			
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.			

Details of the supplier of the safety data sheet

Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

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 by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 2
Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word Danger

Hazard Statements

Highly flammable liquid and vapor Causes skin irritation Causes serious eye irritation May cause respiratory irritation Harmful if swallowed, in contact with skin or 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

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

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

Inhalation

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

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

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 If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

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 %					
1,1-Dimethoxyethyl(dimethyl)a	imine	18871-66-4	>95					
		inat aid maaauraa						
	4. FI	irst-aid measures						
Eye Contact		lical attention is required. Rinse imr at least 15 minutes.	nediately with plenty of water, also under					
Skin Contact	clothes and sho	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required. Take off contaminated clothing and shoes immediately.						
Inhalation		Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Immediate medical attention is required.						
Ingestion	Do NOT induce	vomiting. Call a physician immedia	ately.					
Most important symptoms and effects Notes to Physician	Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting Treat symptomatically							
	5. Fire	e-fighting measures						
Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist ma be used to cool closed containers.								
Unsuitable Extinguishing Media	No information	available						
Flash Point	8 °C / 46.4 °	F						
Method -	No information available							
Autoignition Temperature Explosion Limits	No information	available						
•	No data availab							
Upper								
Upper Lower Sensitivity to Mechanical Impact	No data availab							

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

Nitrogen oxides (NOx). 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.

NFPA Health 2	Flammability 3	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions	Remove all sources of igni See Section 12 for additior	tion. Take precautionary meas nal Ecological Information.	ures against static discharges.

Methods for Containment and Cle Up	can Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Do not let this chemical enter the environment.
	7. Handling and storage
Handling	Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Handle product only in closed system or provide appropriate exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Flammables 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	Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. 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	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
	9. Physical and chemical properties
Physical State Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density Specific Gravity	Liquid Dark yellow No information available No information available No data available 110 - 118 °C / 230 - 244.4 °F @ 760 mmHg 8 °C / 46.4 °F No information available Not applicable No data available No data available No data available No information available No information available No information available No information available

Solubility Partition coefficient; n-octanol/wat Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight	er No information available No data available No information available No information available No information available C6 H15 N O2 133.19			
	10. Stability and reactivity			
Reactive Hazard	None known, based on information available			
Stability	Moisture sensitive.			
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products. Exposure to moist air or water.			
Incompatible Materials	Acids, Strong oxidizing agents			
Hazardous Decomposition Product	ts Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)			

Hazardous Polymerization	Hazardous polymerization does not occur.
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Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure								
Irritation	No information available							
Sensitization		No information ava	ailable					
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
1,1-Dimethoxyethyl(di methyl)amine	18871-66-4	Not listed Not listed Not listed Not listed Not listed						
Mutagenic Effects		No information ava	ailable	LI				
Reproductive Effect		No information available.						
Developmental Effe	cts	No information ava	ailable.					
Teratogenicity		No information available.						
STOT - single expos STOT - repeated exp		Respiratory system None known						
Aspiration hazard		No information ava	ailable					
Symptoms / effects	both acute and	Inhalation of high	apor concentratio	ns may cause sym	ntoms like headact	ne dizziness		

Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, delayed tiredness, nausea and vomiting

Endocrine Disruptor Information	No information available						
Other Adverse Effects	The toxicological properties	s have not been fully investigated.					
	12. Ecologica	l information					
Ecotoxicity Do not empty into drains.							
Persistence and Degradability	Persistence is unlikely						
Bioaccumulation/ Accumulation	No information available.	No information available.					
Mobility	No information available.	lo information available.					
Compone	nt	log Pow					
1,1-Dimethoxyethyl(di	nethyl)amine	0.922					
	13. Disposal co	onsiderations					
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.						
	14. Transport	information					
DOT							

DOT	
UN-No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Technical Name	1,1-Dimethoxyethyl(dimethyl)amine
Hazard Class	3
Packing Group	II
TDG	
UN-No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	II
IATA	
UN-No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	II
IMDG/IMO	
UN-No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	II
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1,1-Dimethoxyethyl(dimethyl)amin e	18871-66-4	-	-	-

Legend: TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical No Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

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
1,1-Dimethoxyethyl(dimethyl)amin	18871-66-4	-	-	242-641-0	Х	-		Х	-	KE-11115
е										

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 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	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N 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 Not applicable

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)
1,1-Dimethoxyethyl(dimethyl)amine	18871-66-4	-	-	-

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)
1,1-Dimethoxyethyl(dimethyl)a mine	18871-66-4	Not applicable	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)
1,1-Dimethoxyethyl(dimethyl)a mine	18871-66-4	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information Prepared By Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com Creation Date 04-Jun-2010 Revision Date 26-Mar-2024 Print Date 26-Mar-2024 Revision Summary New emergency telephone response service provider.

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