

# SAFETY DATA SHEET

Creation Date 24-Nov-2010

Revision Date 24-Dec-2021

Revision Number 5

1. Identification		
Product Name	N,N-Diethyl-m-toluamide	
Cat No. :	AC114570000; AC114570025; AC114570050; AC114571000; AC114575000	
CAS No Synonyms	134-62-3 DEET	
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.	
Details of the supplier of the safety data sheet		
CompanyQuantung, Lda.3840-453 VAGOS, PORTUGALRUA PADRE VINCENTEMARIA DA ROCHA 384JTel: (351)962163100		

**Emergency Telephone Number** 

For information call: +351 91910 8800

## 2. Hazard(s) identification

## Classification

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

Acute oral toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

### Label Elements

**Signal Word** Warning

Hazard Statements Harmful if swallowed Causes skin irritation Causes serious eye irritation



#### 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 Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash 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 Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Harmful to aquatic life with long lasting effects

3. Composition/Information on Ingredients				
Component		CAS No	Weight %	
N,N-Diethyl-m-toluamide 134-62-3 <=100				
4. First-aid measures				
General Advice	If symptoms p	If symptoms persist, call a physician.		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.			
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.			
Ingestion	Clean mouth with water and drink afterwards plenty of water.			
Most important symptoms and effects	No information available.			
Notes to Physician				
5. Fire-fighting measures				

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point	155 °C / 311 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available t No information available No information available

#### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

#### **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 Health 2	Flammability 1	Instability 0	<b>Physical hazards</b> N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Should not be released into the environment. Do not flush into surface water or sanitary sewer system.		

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

	7. Handling and storage		
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.		
Storage.	Keep container tightly closed in a dry and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases. Strong reducing agents.		
8. E	xposure 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. Ensure that eyewash stations and safety showers are close to the workstation location.		
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** 

**Hygiene Measures** 

No protective equipment is needed under normal use conditions.

Handle in accordance with good industrial hygiene and safety practice.

## **9. Physical and chemical properties**

Physical State Appearance Odor **Odor Threshold** pН **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** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight** 

Liquid Colorless Odorless No information available No information available No data available 111 °C / 231.8 °F @ 1 mmHg 155 °C / 311 °F No information available Not applicable

No data available No data available 19 mmHg @ 160 °C 6.60 0.996 Insoluble in water No data available No information available 13.3 cP at 30 °C C12 H17 N O 191.27

## **10. Stability and reactivity**

Reactive Hazard	None known, based on information available	
Stability	No information available.	
Conditions to Avoid	Incompatible products. Excess heat.	
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents	
Hazardous Decomposition Products Nitrogen oxides (NOx), 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			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
N,N-Diethyl-m-toluamide	LD50 = 1892 mg/kg(Rat)	LD50 = 3180 mg/kg (Rabbit)	LC50 = 5860 mg/m³ ( Rat ) 4 h LC50 = 6000 mg/m³ ( Rat ) 4 h
Toxicologically Synergistic Products	No information available		

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

Irritation	Irritating to eyes and skin
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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
I,N-Diethyl-m-toluami de	134-62-3	Not listed	Not listed	Not listed	Not listed	Not listed
lutagenic Effects		Mutagenic effects	have occurred in e	xperimental anima	ls.	
eproductive Effects		No information available.				
evelopmental Effec	ts	No information available.				
eratogenicity		No information available.				
TOT - single exposu TOT - repeated expo		None known None known				
spiration hazard		No information available				
ymptoms / effects,l elayed	ooth acute and	d No information available				
ndocrine Disruptor	Information	No information available				
ther Adverse Effect	s	The toxicological properties have not been fully investigated.				

**12. Ecological information** 

Ecotoxicity Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
N,N-Diethyl-m-toluamide	Not listed	LC50: = 71.25 mg/L, 96h static (Oncorhynchus mykiss) LC50: 106 - 114 mg/L, 96h flow-through (Pimephales promelas)	EC50 = 67.9 mg/L 5 min	Not listed
Persistence and Degradal	bility Soluble in w	ater Persistence is unlikely	based on information availa	able. Insoluble in water
Bioaccumulation/ Accum	ulation No information available.			
Mobility		e mobile in the environment t due its low water solubility.		
	13. D	isposal considera	ations	
Waste Disposal Methods	hazardous v	Chemical waste generators must determine whether a discarded chemical is classifie hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.		cal, regional, and
	14. 1	<b>Fransport inform</b>	ation	
DOT TDG	Not regulate Not regulate			

ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated

## **15. Regulatory information**

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
N,N-Diethyl-m-toluamide	134-62-3	Х	ACTIVE	-

#### Legend:

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

'-' - Not Listed

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,N-Diethyl-m-toluamide	134-62-3	Х	-	205-149-7	Х	Х	Х	Х	Х	KE-10492

**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
<b>OSHA</b> - 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	Not applicable
<b>U.S. Department of Transportation</b> 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

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
N,N-Diethyl-m-toluamide	-	Use restricted. See item 75.	-
		(see link for restriction details)	

https://echa.europa.eu/substances-restricted-under-reach

#### 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,N-Diethyl-m-toluamide	134-62-3	Not applicable	Not applicable	Not applicable	Not applicable
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)
N,N-Diethyl-m-toluamide	134-62-3	Not applicable	Not applicable	Not applicable	Not applicable

## **16. Other information**

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 Revision Summary
 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### **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