TCI EUROPE N.V.

C

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revi	sion number: 1	Revision date: 10/02/2018
	Ibstance/mixture and of the company/undertak	ing
.1 Product identifiers		
Product name:	N,N-Diethylcyclohexylamine	
Product code:	D0484	
I.2 Relevant identified uses of the subs Identified uses:	stance or mixture and uses advised against Reagents.	
1.3 Details of the supplier of the safety	data sheet	
Supplier: TCI EUROPE N.V.		
Boerenveldseweg 6		
Haven 1063		
B-2070 Zwijndrecht		
Telephone: +32(0)3 735 07 00		
E-mail: sales-eu@tcichemicals	com	
.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identification		
.1 Classification of the substance or n Flammable liquids	nixture Category 3	
Skin corrosion/irritation	Category 1B	
Serious eye damage/eye irritation	Category 1	
	Category	
.2 Label elements		
Pictograms or hazard symbols		
Signal word	Danger	
Hazard statements	H226-Flammable liquid and vapour.	
	H314-Causes severe skin burns and eye damage.	
Precautionary statements	P260-Do not breathe dusts or mists.	
	P301+P330+P331+P310-IF SWALLOWED: Rinse mo	outh. Do NOT induce vomiting. Immediately call a
	POISON CENTER or doctor.	- - - - - - - - - -
	P303+P361+P353+P310+P363-IF ON SKIN (or hair):	
	Rinse skin with water or shower. Immediately call a Po clothing before reuse.	JISON CENTER OF DOCIOF. WASH CONTAININATED
	P304+P340+P310-IF INHALED: Remove person to fre	esh air and keep comfortable for breathing.
	Immediately call a POISON CENTER or doctor.	
	P305+P351+P338+P310-IF IN EYES: Rinse cautious	
	lenses, if present and easy to do. Continue rinsing. Im	
	P370+P378-In case of fire: Use dry chemical or dry sa	and to extinguish.
3 Other hazards		
2.3 Other hazards Results of PBT and vPvB assessmer	ıt.	
2.3 Other hazards Results of PBT and vPvB assessmer PBT:	t Not applicable	
Results of PBT and vPvB assessmen		
Results of PBT and vPvB assessmer PBT: vPvB:	Not applicable Not applicable	
Results of PBT and vPvB assessmer PBT: vPvB: SECTION 3: Composition/informat	Not applicable Not applicable	
Results of PBT and vPvB assessmer PBT: vPvB: SECTION 3: Composition/informat	Not applicable Not applicable	
Results of PBT and vPvB assessmer PBT: vPvB: SECTION 3: Composition/informat	Not applicable Not applicable ion on ingredients	
Results of PBT and vPvB assessmer PBT: vPvB: <u>SECTION 3: Composition/informat</u> 1 Substances Components:	Not applicable Not applicable ion on ingredients N,N-Diethylcyclohexylamine	
Results of PBT and vPvB assessmer PBT: vPvB: <u>SECTION 3: Composition/informat</u> .1 Substances Components: Percent:	Not applicable Not applicable ion on ingredients N,N-Diethylcyclohexylamine >98.0%(GC)(T)	
Results of PBT and vPvB assessmer PBT: vPvB: SECTION 3: Composition/informat 3.1 Substances Components: Percent: CAS RN:	Not applicable Not applicable ion on ingredients N,N-Diethylcyclohexylamine >98.0%(GC)(T) 91-65-6	
Results of PBT and vPvB assessmer PBT: vPvB: SECTION 3: Composition/informat 1 Substances Components: Percent: CAS RN: EC-No:	Not applicable Not applicable ion on ingredients N,N-Diethylcyclohexylamine >98.0%(GC)(T) 91-65-6 202-087-2	

SECTION 4: First aid measures	
4.1 Description of first aid measures	Description in family all models and the second in a second state back from the solution in the second state of
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
Eye contact:	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/physician.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.
4.2 Most important symptoms and effect No data available	ts, both acute and delayed
4.3 Indication of any immediate medical No data available	attention and special treatment needed
SECTION 5: Firefighting measures	
5.1 Extinguishing media	Dry shaminal form carbon diavide
Suitable extinguishing media: Unsuitable extinguishing media:	Dry chemical, foam, carbon dioxide. Water (It may scatter and spread fire.)
5.2 Special hazards arising from the substance or mixture	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)
5.3 Advice for firefighters	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so. When extinguishing fire, be sure to wear personal protective equipment
SECTION 6: Accidental release mea	
6.1 Personal precautions, protective equipment and emergency procedures	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc
6.2 Environmental precautions	Prevent product from entering drains
6.3 Methods and materials for containment and cleaning up	Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.
6.4 Reference to other sections	For disposal see section 13.
SECTION 7: Handling and storage	
7.1 Precautions for safe handling	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents. Air-sensitive
7.3 Specific end use(s)	No further relevant information available.

SECTION 8: Exposure controls/personal protection		
8.1 Control parameters	No data available	
8.2 Exposure controls	Install a closed system or local exhaust. Also install safety shower and eye bath.	
Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.	
Hand protection:	Impervious gloves.	
Eye protection:	Safety goggles. A face-shield, if the situation requires.	
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.	

SECTION	9. Physical	and chemical	Inronerties

9.1 Information on basic physical and ch	nemical properties
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Slightly pale yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	193°C
Flash point:	57°C
Evaporation rate(Butyl Acetate=1):	No data available
Flammability(solid, gas):	No data available
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Vapour pressure:	No data available.
Vapour density:	No data available
Relative density:	0.84
Solubility(ies):	
[Water]	No data available
[Other solvents]	No data available
Partition coefficient:	No data available
n-octanol/water:	
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available
9.2 Other safety information	No data available

SECTION 10: Stability and reactivity		
10.1 Reactivity	No data available	
10.2 Chemical stability	Stable under proper conditions.	
10.3 Possibility of hazardous reactions	No special reactivity has been reported.	
10.4 Conditions to avoid	Spark, Open flame, Static discharge	
10.5 Incompatible materials	Oxidizing agents, Acids	

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

SECTION 11: Toxicological information 11.1 Information on toxicological effects

1.1 Information on toxicological effects	
Acute Toxicity:	ihl-rat LCLo:679 mg/m ³ /4H
	skn-rbt LDLo:450 mg/kg
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available
RTECS Number:	GU5830125

SECTION 12: Ecological information 12.1 Toxicity

12.1 TOXICITY	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³ /mol):	No data available
12.5 Results of PBT and vPvB assessm	ent
PBT:	Not applicable
vPvB:	Not applicable
12.6 Other adverse effects	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14.1 UN number	2734	
14.2 UN proper shipping name		
ADR/RID	Amines, liquid, corrosive, flammable, n.o.s	
IMDG/IMO	Amines, liquid, corrosive, flammable, n.o.s	
ICAO/IATA	Amines, liquid, corrosive, flammable, n.o.s	
4.3 Transport hazard class(es)		
ADR/RID	8: Corrosive	
Subsidiary risk:	3: Flammable liquid.	
IMDG/IMO	8: Corrosive	
Subsidiary risk:	3: Flammable liquid.	
ICAO/IATA	8: Corrosive	
Subsidiary risk:	3: Flammable liquid.	
4.4 Packaging group		
ADR/RID	II	
IMDG/IMO	II	
ICAO/IATA	II	
4.5 Environmental hazards		
Marine pollutant	-	
4.6 Special precautions for user	No data available	

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Substance of Very High Concern (SVHC) according to the Not listed REACH Regulations (EC) No.1907/2006

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information		
Prepared by:	TCI EUROPE N.V.	
Issue date:	10/02/2018	
issue date:	10/02/2018	

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet