TCI EUROPE N.V.

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SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	ision number: 1	Revision date: 10/02/2018
SECTION 1: Identification of the su	ubstance/mixture and of the company/undertakir	ng
1.1 Product identifiers		
Product name:	N,N'-Diethylethylenediamine	
Product code:	D0287	
1.2 Relevant identified uses of the sub	stance or mixture and uses advised against	
Identified uses:	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		
1.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identification		
2.1 Classification of the substance or r		
Flammable liquids	Category 3 Category 1B	
Skin corrosion/irritation		
Skin corrosion/irritation Serious eye damage/eye irritation 2.2 Label elements Pictograms or hazard symbols	Category 1	
Serious eye damage/eye irritation		
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Serious eye damage/eye irritation	Category 1 Danger H226-Flammable liquid and vapour.	
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SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	N,N'-Diethylethylenediamine
Percent:	>95.0%(GC)
CAS RN:	111-74-0
EC-No:	203-902-4
Synonyms:	1,2-Bis(ethylamino)ethane, N,N'-Ethylenediethyldiamine
Chemical Formula:	C6H16N2

SECTION 4: First aid measures 4.1 Description of first aid measures 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. 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 effects, both acute and delayed No data available

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures		
5.1 Extinguishing media 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 Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)	to generate poisonous fume.
5.3 Advice for firefighters	Fire-extinguishing work is done from the windward and the suitable fire-ext to the surrounding situation is used. Uninvolved persons should evacuate fire in the surroundings: Keep containers cool by spraying with water. Elim safe to do so. When extinguishing fire, be sure to wear personal protectiv	to a safe place. In case of inate all ignition sources if
SECTION 6: Accidental release mea	asures	
6.1 Personal precautions, protective equipment and emergency procedures	Use extra personal protective equipment (self-contained breathing appara and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involve 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 case of large amount of spillage, contain a spill by bunding. Adhered or co promptly disposed of, in accordance with appropriate laws and regulations ignition. Fire-extinguishing devices should be prepared in case of a fire. Us explosion-proof equipment.	ollected material should be s. Remove all sources of
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 of generation of vapour or mist. Keep away from heat/sparks/open flame/hot measures to prevent the build up of electrostatic charge. Use explosion-pr and face thoroughly after handling. Use a closed system if possible. Use vapour or aerosol will be generated. Avoid contact with skin, eyes and closed system if the statement of the stateme	surfacesNo smoking. Take roof equipment. Wash hands a ventilation, local exhaust if
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool, dark and well-ventilated place Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizin Hygroscopic	Ũ
7.3 Specific end use(s)	No further relevant information available.	
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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. Ph	vsical and chemical	l nronerties
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9.1 Information on basic physical and ch	nemical properties
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Very pale yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	150°C
Flash point:	33°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:	0.81
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	

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

SECTION 11: Toxicological information 1

11.1 Information on toxicological effects	
Acute Toxicity:	No data available
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

SECTION 12: Ecological information 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 assessment		
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.

SECTION 14: Transport information	ion	
14.1 UN number	2685	
14.2 UN proper shipping name		
ADR/RID	N,N-Diethylethylenediamine	
IMDG/IMO	N,N-Diethylethylenediamine	
ICAO/IATA	N,N-Diethylethylenediamine	
14.3 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.	
14.4 Packaging group		
ADR/RID	l	
IMDG/IMO	l	
ICAO/IATA	II	
14.5 Environmental hazards		
Marine pollutant	-	
14.6 Special precautions for user	No data available	

SECTION 15: Regulatory information

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

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