CUTCI EUROPE N.V.

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	Revision number: 1 Revision date: 10/02/2
SECTION 1: Identification of th	e substance/mixture and of the company/undertaking
1 Product identifiers	
Product name:	N,N'-Di-sec-butyl-1,4-phenylenediamine
Product code:	D2268
2 Relevant identified uses of the Identified uses:	substance or mixture and uses advised against Reagents.
3 Details of the supplier of the sa Supplier:	iety data sheet
TCI EUROPE N.V.	
Boerenveldseweg 6	
Haven 1063	
B-2070 Zwijndrecht	
Telephone: +32(0)3 735 0	
E-mail: sales-eu@tcichem	cals.com
Emergency telephone number:	+32(0)70 245 245
ECTION 2: Hazards identifica	ion
I Classification of the substance	
Acute toxicity (Oral)	Category 3
Skin corrosion/irritation	Category 1C
Serious eye damage/eye irritat	on Category 1
Skin sensitization	Category 1
Acute aquatic hazard	Category 1
Long-term aquatic hazard	Category 1
2 Label elements	
2 Label elements Pictograms or hazard symbols	
2 Label elements Pictograms or hazard symbols	Danger
2 Label elements Pictograms or hazard symbols	Danger H301-Toxic if swallowed.
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SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	N,N'-Di-sec-butyl-1,4-phenylenediamine
Percent:	>98.0%(GC)
CAS RN:	101-96-2
EC-No:	202-992-2
Chemical Formula:	C14H24N2

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. 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 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:	Dry chemical, foam, carbon dioxide.	
Unsuitable extinguishing media:	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: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment	
SECTION 6: Accidental release mea	asures	
6.1 Personal precautions, protective	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate	
equipment and emergency procedures	ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc	
6.2 Environmental precautions	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned	
6.3 Methods and materials for containment and cleaning up	Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). 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.	
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. 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 and dark 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.	

D2268	N,N'-Di-sec-butyl-1,4-phenylenedi	Page 2 of 5
	amine	

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:
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
SECTON	7. FIIVSILAI	and chemical	DIDDELLES

9.1 Information on basic physical and chemical properties				
Physical state (20°C):	Liquid			
Form:	Clear			
Colour:	Very pale yellow - Yellow red			
Odour:	No data available			
pH:	No data available			
Melting point/freezing point:	18°C (Freezing point)			
Boiling point/range:	159°C /0.9kPa			
Flash point:	180°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:	0.94			
Solubility(ies):				
[Water]	Insoluble			
[Other solvents]				
Soluble:	Benzene, Ethanol, Hydrocarbons			
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 an	d reactivity
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10.1 Reactivity	No data available	
10.2 Chamical stability	Stable under proper og	

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 No data available

10.5 Incompatible materials Oxidizing agents, Strong acids

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
· · · · · · · · · · · · · · · · · · ·	ihl-rat LCLo:600 mg/m3/6H
	orl-rat LD50:148 mg/kg
	skn-gpg LD50:5 g/kg
	skn-rbt LD50:2806 mg/kg
Skin corrosion/irritation:	skn-rbt 500 uL/24H SEV
Serious eye damage/irritation:	eye-rbt 100 uL/24H SEV
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:	SS9040000

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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		
14.1 UN number	2922	
14.2 UN proper shipping name		
ADR/RID	Corrosive liquid, toxic, n.o.s	
IMDG/IMO	Corrosive liquid, toxic, n.o.s	
ICAO/IATA	Corrosive liquid, toxic, n.o.s	
14.3 Transport hazard class(es)		
ADR/RID	8: Corrosive	
Subsidiary risk:	6.1: Toxic substance.	
IMDG/IMO	8: Corrosive	
Subsidiary risk:	6.1: Toxic substance.	
ICAO/IATA	8: Corrosive	
Subsidiary risk:	6.1: Toxic substance.	
14.4 Packaging group		
ADR/RID	III	
IMDG/IMO	III	
ICAO/IATA	III	
14.5 Environmental hazards		
Marine pollutant	Y	
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