CI TCI EUROPE N.V.

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revis	ion number: 2	Revision date: 06/10/2022		
SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1 Product identifiers				
Product name:	Isophoronediamine (cis- and trans- mixture)			
Product code:	10228			
1.2 Relevant identified uses of the substilled uses:	ance or mixture and uses advised against Reagents.			
1.3 Details of the supplier of the safety of Supplier:	lata sheet			
TCI EUROPE N.V.				
Boerenveldseweg 6				
Haven 1063				
B-2070 Zwijndrecht				
Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.	nom			
1.4 Emergency telephone number:	+32(0)70 245 245			
SECTION 2: Hazards identification				
2.1 Classification of the substance or m	ixture			
Acute toxicity (Oral)	Category 4			
Skin corrosion/irritation	Category 1B			
Serious eye damage/eye irritation	Category 1			
Skin sensitization	Category 1			
Specific target organ toxicity - Repe	ated exposure [Category 2] Respiratory system			
2.2 Label elements Pictograms or hazard symbols				
Signal word	Danger			
Hazard statements	H302-Harmful if swallowed.			
	H302-Harmful if swallowed. H314-Causes severe skin burns and eye damage. H317-May cause an allergic skin reaction. H373-May cause damage to organs through prolonged or repeated exposure : Respiratory system			
Precautionary statements	P260-Do not breathe dust/fume/gas/mist/vapours/spray. P284-Wear respiratory protection. P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a			
	POISON CENTER or doctor. P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off im Rinse skin with water or shower. Immediately call a POISON CEN	,		
	clothing before reuse. P304+P340+P310-IF INHALED: Remove person to fresh air and I Immediately call a POISON CENTER or doctor.	keep comfortable for breathing.		
	P305+P351+P338+P310-IF IN EYES: Rinse cautiously with water			
2.3 Other hazards	lenses, if present and easy to do. Continue rinsing. Immediately c	all a PUISON CENTER of doctor.		
2.3 Other hazards				
Results of PBT and vPvB assessment				
PBT:	Not applicable			
vPvB:	Not applicable			

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SECTION 3: Composition/information on ingredients

Isophoronediamine (cis- and trans- mixture)		
>99.0%(GC)		
2855-13-2		
220-666-8		
1-Amino-3-aminomethyl-3,5,5-trimethylcyclohexane (cis- and trans- mixture)		
C10H22N2		

SECTION 4: First aid measures

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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 E. Firstighting massives		
SECTION 5: Firefighting measures		
5.1 Extinguishing media Suitable extinguishing media:	Dry chemical, foam, water in large amounts, carbon dioxide.	
Suitable extinguishing media.	Dry chemical, idam, water in large amounts, carbon dioxide.	
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 equipment and emergency procedures	Use personal protective equipment. 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 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.	

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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.	

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	SECTION	V 9: Physical	l and chemical	properties

9.1 Information on basic physical and chemical properties				
Physical state (20°C):	Liquid			
Form:	Clear			
Colour:	Colorless - Very pale yellow			
Odour:	Characteristic			
pH:	No data available			
Melting point/freezing point:	10°C			
Boiling point/range:	247°C			
Flash point:	117°C			
Evaporation rate(Butyl Acetate=1):	No data available			
Flammability(solid, gas):	No data available			
Flammability or explosive limits:				
Lower:	1.2%			
Upper:	No data available			
Vapour pressure:	2Pa/20°C			
Vapour density:	No data available			
Relative density:	0.93			
Solubility(ies):				
[Water]	Miscible			
[Other solvents]				
Miscible:	Many organic solvents			
Partition coefficient:	1.56			
n-octanol/water:				
Autoignition temperature:	380°C			
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 reactivit	
0 1 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	No data available
10.5 Incompatible materials	Oxidizing agents

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects		
Acute Toxicity:	orl-rat LD50:1030 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	

SECTION 12: Ecological information 12.1 Toxicity Fish: 48h LC50:160 mg/L (Oryzias latipes) Crustacea: No data available No data available Algae: 12.2 Persistence and degradability 0 % (by BOD) , 3 % (by HPLC) , 3 % (by TOC) 12.3 Bioaccumulative potential <0.3 (conc. 1 mg/L) , <3.4 (conc. 0.1 mg/L) 12.4 Mobility in soil Log Pow: 1.56 Soil adsorption (Koc): No data available Henry's Law (PaM ³/mol): 4.5 x 10⁻⁴ 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		
14.1 UN number	2289	
14.2 UN proper shipping name		
ADR/RID	Isophoronediamine	
IMDG/IMO	Isophoronediamine	
ICAO/IATA	Isophoronediamine	
14.3 Transport hazard class(es)		
ADR/RID	8: Corrosive	
IMDG/IMO	8: Corrosive	
ICAO/IATA	8: Corrosive	
14.4 Packaging group		
ADR/RID	11	
IMDG/IMO		
ICAO/IATA	III	
14.5 Environmental hazards		
Marine pollutant	-	
14.6 Special precautions for user	No data available	

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SECTION 15: Regulatory information					
5.1 Safety, health and environmental regulations/legislation specific for the substance or mixture					
Water Hazard Classes (WGK) :	Class 1 - Low hazard to waters				
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006	Not listed				
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:	06/10/2022	
This CDC was seen and size		a manalina na tha a data

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

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