TCI EUROPE N.V.

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SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Re	evision number: 1	Revision date: 10/03/2018
SECTION 1: Identification of the	substance/mixture and of the company/undertaking	7
1.1 Product identifiers		
Product name:	3,6,9,12-Tetraoxatridecanamine	
Product code:	M2501	
1.2 Relevant identified uses of the su Identified uses:	bstance or mixture and uses advised against Reagents.	
1.3 Details of the supplier of the safe Supplier:	ty data sheet	
TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063		
B-2070 Zwijndrecht		
Telephone: +32(0)3 735 07 0	00	
E-mail: sales-eu@tcichemica		
1.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identification		
2.1 Classification of the substance or Skin corrosion/irritation	Category 1C	
Serious eye damage/eye irritation	e ,	
Serious eye damage/eye irritation	Category	
Signal word	Danger	
Hazard statements	H314-Causes severe skin burns and eye damage.	
Precautionary statements	 P260-Do not breathe dusts or mists. P280-Wear protective gloves, protective clothing, face pr P301+P330+P331+P310-IF SWALLOWED: Rinse mouth POISON CENTER or doctor. P303+P361+P353+P310+P363-IF ON SKIN (or hair): Ta Rinse skin with water or shower. Immediately call a POIS clothing before reuse. P304+P340+P310-IF INHALED: Remove person to fresh Immediately call a POISON CENTER or doctor. P305+P3361+P338+P310-IF IN EYES: Rinse cautiously w lenses, if present and easy to do. Continue rinsing. Immediately call a poison 	 Do NOT induce vomiting. Immediately call a ke off immediately all contaminated clothing. CON CENTER or doctor. Wash contaminated air and keep comfortable for breathing. with water for several minutes. Remove contact
2.3 Other hazards	lenses, il present and easy to do. Continue mising. Imme	
Results of PBT and vPvB assessm	ent	
PBT:	Not applicable	
vPvB:	Not applicable	
SECTION 3: Composition/inform. 3.1 Substances	ation on ingredients	
Components:	3,6,9,12-Tetraoxatridecanamine	
Percent:	>98.0%(GC)	
CAS RN:	85030-56-4	
EC-No:	285-182-1	
Synonyms:	Methyl-PEG4-Amine, mPEG4-Amine, mPEG4-NH2	
Chemical Formula:	C9H21NO4	

M2501

3,6,9,12-Tetraoxatridecanamine

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SECTION 4: First aid measures	5
4.1 Description of first aid measure	95
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, water spray, 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 refrigerator. Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents. Heat-sensitive, Air-sensitive
7.3 Specific end use(s)	No further relevant information available.
SECTION 8: Exposure controls/pers	sonal 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: Eye 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. Impervious gloves.

SECTION 9: Physical and chemical properties 9.1 Information on basic physical 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:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	85°C /0.01kPa
Flash point:	No data available
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:	No data available
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	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 effect	S
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

	tion
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 assess	sment
PBT:	Not applicable
vPvB:	Not applicable
10.0 Other advance offects	
12.6 Other adverse effects	No data available
SECTION 13: Disposal considera 13.1 Waste treatment methods	
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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:	10/03/2018

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