TCI EUROPE N.V.

C

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revis	sion number: 1	Revision date:	10/02/2018
SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking		
1.1 Product identifiers			
Product name: Product code:	trans-2,3-Dibromo-2-butene-1,4-diol D2169		
1.2 Relevant identified uses of the subs Identified uses:	tance or mixture and uses advised against Reagents.		
1.3 Details of the supplier of the safety of 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 m Germ cell mutagenicity	ixture Category 2		
Signal word	Warning		
Signal word Hazard statements Precautionary statements	Warning H341-Suspected of causing genetic defects. P201-Obtain special instructions before use. P202-Do not handle until all safety precautions have been read and unde P280-Wear protective gloves, protective clothing, face protection. P308+P313-IF exposed or concerned: Get medical advice or attention. P405-Store locked up. P501-Dispose of contents/container through a waste management compr government.		he local
2.3 Other hazards	government.		
Results of PBT and vPvB assessment	t i i i i i i i i i i i i i i i i i i i		
PBT:	Not applicable		
vPvB:	Not applicable		
SECTION 3: Composition/informati 3.1 Substances Components: Percent: CAS RN: EC-No:	on on ingredients trans-2,3-Dibromo-2-butene-1,4-diol >99.0%(GC) 21285-46-1 244-313-2		
Synonyms: Chemical Formula:	trans-2,3-Dibromo-1,4-dihydroxy-2-butene C₄H₀Br₂O₂		
chemioari ernala.			

trans-2,3-Dibromo-2-butene-1,4-di ol

SECTION 4: First aid measures	
4.1 Description of first aid measure	S
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.
Ingestion:	Get medical advice/attention.Rinse mouth.
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, Hydrogen bromide	
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		
6.1 Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Keep people away from and upwind of spill/leak. 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	Sweep dust to collect it into an airtight container, taking care not to disperse it. 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 dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid all contact!	
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool and dark place. Store locked up. Store away from incompatible materials such as oxidizing agents.	
7.3 Specific end use(s)	No further relevant information available.	
SECTION 8: Exposure controls/per	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:	Dust 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: Eye protection: Skin and body protection:	Impervious gloves. Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires.	

SECTION 9: Physical and chemical properties

SECTION 7. THYSICALARU CHCHICAL	properties
9.1 Information on basic physical and ch	nemical properties
Physical state (20°C):	Solid
Form:	Crystal - Powder
Colour:	White - Pale yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	114°C
Boiling point/range:	No data available
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]	
Soluble:	Methanol
Partition coefficient:	No data available
n-octanol/water:	N 17
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, Hydrogen bromide

SECTION 11: Toxicological information 11.1 Information on toxicological effects

1.1 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:	mmo-sat 33 ug/plate (-S9)
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:	EM6910000

SECTION 12: Ecological informat	ion	
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		
PBT:	Not applicable	
vPvB:	Not applicable	
12.6 Other adverse effects	ner adverse effects No data available	
SECTION 13: Disposal considera	tions	
13.1 Waste treatment methods		
	sult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent quipped with an afterburner and scrubber system. Observe all federal, state and local regulations when	
SECTION 14: Transport informati	on	
14.1 UN number	Not listed	
14.2 UN proper shipping name		
ADR/RID	Not listed	
IMDG/IMO	Not listed	
ICAO/IATA	Not listed	
14.3 Transport hazard class(es)		
ADR/RID	Does not correspond to the classification standard of the United Nations	
IMDG/IMO	Does not correspond to the classification standard of the United Nations	
ICAO/IATA	Does not correspond to the classification standard of the United Nations	
14.4 Packaging group		
ADR/RID	-	
IMDG/IMO	-	
ΙCAO/ΙΑΤΑ	-	

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 for 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 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