TCI EUROPE N.V.

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SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revi	sion number: 1	Revisi	ion date:	10/02/2018
SECTION 1: Identification of the su	bstance/mixture and of the c	ompany/undertaking		
1.1 Product identifiers				
Product name:	Benserazide Hydrochloride			
Product code:	B4108			
1.2 Relevant identified uses of the subs Identified uses:	tance or mixture and uses advise Reagents.	ed against		
1.3 Details of the supplier of the safety Supplier:	data sheet			
TCI EUROPE N.V.				
Boerenveldseweg 6				
Haven 1063				
B-2070 Zwijndrecht				
Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.	com			
1.4 Emergency telephone number:	+32(0)70 245 245			
SECTION 2: Hazards identification				
2.1 Classification of the substance or m Skin corrosion/irritation		egory 2		
Serious eye damage/eye irritation		egory 2		
Senous eye damage/eye initation	Cat			
Signal word	Warning			
Hazard statements	H315-Causes skin irritation. H319-Causes serious eye irritatio	n		
Precautionary statements	P264-Wash hands and face thore			
	P280-Wear protective gloves, eye P302+P352+P332+P313+P362+ Get medical advice or attention. P305+P351+P338+P337+P313-I		e reuse. ral minutes	s. Remove
2.3 Other hazards				
Results of PBT and vPvB assessmen	t			
PBT:	Not applicable			
vPvB:	Not applicable			
SECTION 3: Composition/informat	on on ingredients			
3.1 Substances				
Components:	Benserazide Hydrochloride			
Percent:	>97.0%(HPLC)(T)			
CAS RN:	14919-77-8			
EC-No:	238-991-9			
Synonyms:	DL-Serine 2-(2,3,4-Trihydroxyber	zvl)bydrazide Hydrochloride		
Chemical Formula:	C10H15N3O5·HCI			
enemouri ermula.				

SECTION 4: First aid measures	
4.1 Description of first aid measure	15
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion:	Get medical advice/attention if you feel unwell. 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, Nitrogen oxides (NOx), Hydrogen chloride	
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. 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 local exhaust if dust 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. Protect from moisture. Store away from incompatible materials such as oxidizing agents. Light-sensitive, Hygroscopic	
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 as possible so that workers should not be exposed directly. Also install safety shower and eye bath.	
Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Dust respirator. Follow local and national regulations. Protective gloves. Safety glasses. A face-shield, if the situation requires. Protective clothing. Protective boots, if the situation requires.	

SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical

9.1 Information on basic physical and chemical properties		
Physical state (20°C):	Solid	
Form:	Crystal - Powder	
Colour:	White - Slightly pale reddish yellow	
Odour:	No data available	
pH:	No data available	
Melting point/freezing point:	180°C (dec.)	
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]	Soluble	
[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), Hydrogen chloride

SECTION 11: Toxicological information		
11.1 Information on toxicological effects	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	
RTECS Number:	VT9632300	

SECTION 12: Ecological informa	tion
SECTION 12: Ecological informa 12.1 Toxicity	liun
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
12.6 Other adverse effects	No data available
SECTION 13: Disposal considera	tions
13.1 Waste treatment methods	
	nsult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when
SECTION 14: Transport informat	ion
14.1 UN number	Not listed
14.2 UN proper shipping name	
ADR/RID	Not listed
IMDG/IMO	Not listed
ΙϹΑΟ/ΙΑΤΑ	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	-
ICAO/IATA	-

14.5 Env	/ironmei	ntal hazaro	ds		
Mar	ine pollu	itant		-	

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