*This SDS for user in China - Not correspond to the regulation of other regions.



TCI (Shanghai) DEVELOPMENT CO., LTD.

Revision number: 1

 Revision date:
 09/05/2019
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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Product code: Company: Address: Responsible Department: Telephone: Fax: e-mail: Emergency telephone: Revision number:	Sodium Cyanoborohydride [Reducing Agent] S0396 TCI (Shanghai) DEVELOPMENT CO., LTD. No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China Sales Department +86-(0)21-67121386 +86-(0)21-67121385 Sales-CN@TCIchemicals.com 0532-83889090 1	
2. HAZARDS IDENTIFICATIO Classification of the substance PHYSICAL HAZARDS	e or mixture	
Substances and mixture with water, emit flamma		Category 1
HEALTH HAZARDS Acute toxicity (Oral)		Category 2
Acute toxicity (Oral) Acute toxicity (Dermal)		Category 2
Acute toxicity (Dermal) Acute toxicity (Inhalatior)	Category 2
Skin corrosion/irritation	1)	Category 1B
Serious eye damage/eye	irritation	Category 1
ENVIRONMENTAL HAZARDS		Calcyory
Acute aquatic hazard		Category 1
Long-term aquatic hazar	d	Category 1
Label elements	ŭ	Category
Pictograms or hazard symbo	ls	
Signal word		Danger
Hazard statements		In contact with water releases flammable gases which may ignite spontaneously
		Fatal by inhalation, in contact with skin and if swallowed
		Causes severe skin burns and eye damage
		Very toxic to aquatic life
		Very toxic to aquatic life with long lasting effects
Precautionary statements		very toxic to aquatio into whit long labiling choice
[Prevention]	Do not allow contact	with water.
[]		as. Protect from moisture.
	U	fume, mist, vapors or spray.
	Do not get in eyes, or	
		in a well-ventilated area.
	Avoid release to the e	
		moke when using this product.
		e thoroughly after handling.
	Wear respiratory prot	
	Moor protoctive alour	a protoctive electrical face protoction

Wear protective gloves, protective clothing, face protection.

[Response]	TCI (Shanghai) DEVELOPMENT CO., LTD. Revision number: 1 Revision date: 09/05/2019 Page 2 of 5 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF IN EYES: 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. Brush off loose particles from skin. Immerse in cool water or wrap with wet bandages. In case of fire: Use dry chemical or dry sand to extinguish. Collect apillage
[Storage]	Collect spillage. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
[Disposal]	Dispose of contents and container in accordance with local, regional, national regulations.
3. COMPOSITION/INFORMAT Substance/mixture: Components: Percent: CAS RN: Synonyms: Chemical Formula:	ON ON INGREDIENTS Substance Sodium Cyanoborohydride [Reducing Agent] >95.0%(T) 25895-60-7 Sodium Cyanotrihydridoborate CH ₃ BNNa
4. 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: Eye contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present
Ingestion:	and easy to do. Continue rinsing.Immediately call a POISON CENTER or doctor/physician. 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.
5. FIRE-FIGHTING MEASURE	
Suitable extinguishing media:	Dry chemical, dry sand.
Unsuitable extinguishing media:	Water
Precautions 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.
Special protective equipment for firefighters:	When extinguishing fire, be sure to wear personal protective equipment

6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	Use extra personal protective equipment (self-contained breathing apparatus).
protective equipment and	Keep people away from and upwind of spill/leak. Entry to non-involved personnel
emergency procedures:	should be controlled around the leakage area by roping off, etc.
Environmental precautions:	Be careful not to let it flow into rivers, etc., since adverse effects on the
	environment are concerned.
Methods and materials for	Sweep dust to collect it into an airtight container, taking care not to disperse it.
containment and cleaning	Adhered or collected material should be promptly disposed of, in accordance with
up:	appropriate laws and regulations.
Prevention of secondary	Do not allow contact with water. Remove all sources of ignition. Fire-extinguishing
hazards:	devices should be prepared in case of a fire. Use spark-proof tools and
	explosion-proof equipment. Since there is a possibility of igniting behind when
	removal of a leakage thing is imperfect, it is careful enough.

7. HANDLING AND STORAGE

Packaging material:

Precautions for safe handling	
Technical measures:	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.
Advice on safe handling:	Avoid contact with skin, eyes and clothing.
g.	May develop pressure. Open carefully.
	Keep away from any possible contact with water, because of violent reaction and possible flash fire. Use well-dried equipment.
	Handle under inert gas.
	Don't leave used equipment or rag. This product may ignite if it is left stuck on combustibles such as paper, rags, etc.
Conditions for safe storage, inc	luding any
incompatibilities	
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Protect from moisture.
	Store locked up.
	Store away from incompatible materials such as oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Moisture-sensitive

Comply with laws.

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath. **Personal protective equipment**

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:	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Solid
Form:	Crystal - Powder
Colour:	White - Very pale yellow
Odour:	Odorless
pH:	8 - 9 (10% H2O Soln.)
Melting point/freezing point:	No data available
Boiling point/range:	No data available
Flash point:	No data available
Flammability or explosive	
limits:	
Lower:	No data available
Upper:	No data available
Relative density:	No data available
Solubility(ies):	
[Water]	Very soluble (Decomposes) (212g/100g, 29°C)
[Other solvents]	
Very soluble:	Methanol
Soluble:	Dimethylformamide(DMF), Tetrahydrofuran(THF)
Slightly soluble:	Ethanol, Isopropylamine
Insoluble:	Ether, Benzene, Hexane
Autoignition temperature:	175°C
10. STABILITY AND REACTIV	
Chemical stability:	Stable under proper conditions.
Possibility of hazardous	May spontaneously ignite or release flammable gases when in contact with water.
reactions:	may spontaneously lynne or release naminable gases when in contact with water.
reactions.	

Conditions to avoid:MoistureIncompatible materials:Oxidizing agents, Acids, WaterHazardous decompositionCarbon monoxide, carbon dioxide etcproducts:Oxidi agents, Acids, Water

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye	No data available
damage/irritation:	
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative	No data available
potential(BCF):	
Mobility in soil	
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³/mol):	No data available

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. Take precautions against ignition. Observe all federal, state and local regulations when disposing of the substance

14. TRANSPORT INFORMATION

Hazards Class:	4.3: Substance which, in contact with water, emit flammable gases.
Subsidiary risk:	6.1: Toxic substance.
UN-No:	3134
Proper shipping name:	Water-reactive solid, toxic, n.o.s.
Packing group:	l
Marine pollutant	Y

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

16. OTHER INFORMATION

The reference company n	ame of written contents
Company:	TCI (Shanghai) DEVELOPMENT CO., LTD.
Address:	No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China
Department:	Technical Information Department
Emergency telephone:	0532-83889090
Fax:	+86-(0)21-67121385
This SDS was prepared sincerely on th	he basis of the information we could obtained, however, any warranty shall not be given regarding the data

The products are supposed to be used promptly after purchase in consideration of safety. Some new information to 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.