TCI (Shanghai) DEVELOPMENT CO., LTD.

O-(2,3,4,5,6-Pentafluorobenzyl)hydroxylamine Hydrochloride [for Oxime Preparation]

Revision number: 1

Revision date: 12/01/2010

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SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: **Product code:** Company: Address: **Responsible Department:** Telephone: Fax: e-mail: **Revision number:**

O-(2,3,4,5,6-Pentafluorobenzyl)hydroxylamine Hydrochloride [for Oxime Preparation] P0822 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@tcishanghai.com.cn 1

2. HAZARDS IDENTIFICATION **Classification of the GHS** PHYSICAL HAZARDS **HEALTH HAZARDS** Skin corrosion/irritation Serious eye damage/eye irritation **ENVIRONMENTAL HAZARDS GHS** label elements Pictograms or hazard symbols



Signal word Hazard statement

Precautionary statements [Prevention]

[Response]

Category 2 Category 2A

Not classified

Not classified

Warning Causes skin irritation Causes serious eye irritation

Wash hands thoroughly after handling. Wear protective gloves/eye protection/face protection. IF IN EYES: 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. IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance O-(2,3,4,5,6-Pentafluorobenzyl)hydroxylamine Hydrochloride [for Oxime Preparation] Component(s): Percent: >98.0%(LC)(N) CAS Number: 57981-02-9 **Chemical Formula:** C7H4F5NO·HCI

4. FIRST AID MEASURES

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.

	RST AID MEASURES		
4. FI	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	
	Ingestion:	advice/attention. 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.	
5. FI	RE-FIGHTING MEASURES Suitable extinguishing	Dry chemical, foam, water spray, carbon dioxide.	
	media:	bry chemical, foam, water spray, carbon dioxide.	
	Specific hazards:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.	
	Specific methods:	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	When extinguishing fire, be sure to wear personal protective equipment.	
	equipment for firefighters:		
6. A	CCIDENTAL RELEASE ME	ASURES	
0170	Personal precautions,	Use personal protective equipment. Keep people away from and upwind of spill/leak.	
	protective equipment and	Entry to non-involved personnel should be controlled around the leakage area by	
	emergency procedures: Environmental precautions	roping off, etc. : Prevent product from entering drains.	
	Methods and materials for	Sweep dust to collect it into an airtight container, taking care not to disperse it.	
	containment and cleaning up:	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.	
	up.		
7. HANDLING AND STORAGE			
7. HA	lling	Handling is performed in a well ventilated place. Wear suitable protective equipment	
		Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling.	
	lling Technical measures:	Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated.	
Hand	Iling Technical measures: Advice on safe handling:	Prevent dispersion of dust. Wash hands and face thoroughly after handling.	
	Iling Technical measures: Advice on safe handling: age	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.	
Hand	Iling Technical measures: Advice on safe handling: age Storage conditions:	 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. Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents. 	
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<u>Hano</u>	Iling Technical measures: Advice on safe handling: age Storage conditions:	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.Keep container tightly closed. Store in a cool and dark place.Store away from incompatible materials such as oxidizing agents.Law is followed.	
<u>Hano</u>	Iling Technical measures: Advice on safe handling: age Storage conditions: Packaging material:	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. Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents. Law is followed. ERSONAL PROTECTION Install a closed system or local exhaust as possible so that workers should not be	
<u>Hano</u>	Iling Technical measures: Advice on safe handling: age Storage conditions: Packaging material: KPOSURE CONTROLS / PR Engineering controls:	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. Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents. Law is followed. ERSONAL PROTECTION Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.	
<u>Hano</u>	Iling Technical measures: Advice on safe handling: age Storage conditions: Packaging material: KPOSURE CONTROLS / Pf	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. Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents. Law is followed. ERSONAL PROTECTION Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.	
<u>Hano</u>	Iling Technical measures: Advice on safe handling: age Storage conditions: Packaging material: KPOSURE CONTROLS / PE Engineering controls: Personal protective equipm Respiratory protection: Hand protection:	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. Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents. Law is followed. ERSONAL PROTECTION Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath. Install respirator. Follow local and national regulations. Protective gloves.	
<u>Hano</u>	Iling Technical measures: Advice on safe handling: age Storage conditions: Packaging material: KPOSURE CONTROLS / PE Engineering controls: Personal protective equipm Respiratory protection: Hand protection: Eye protection:	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. Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents. Law is followed. ERSONAL PROTECTION Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath. Potent Dust respirator. Follow local and national regulations. Protective gloves. Safety glasses. A face-shield, if the situation requires.	
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<u>Hand</u> Stora	Iling Technical measures: Advice on safe handling: age Storage conditions: Packaging material: KPOSURE CONTROLS / PE Engineering controls: Personal protective equipm Respiratory protection: Hand protection: Eye protection: Skin and body protection: HYSICAL AND CHEMICAL Physical state (20°C):	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. Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents. Law is followed. ERSONAL PROTECTION Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath. Install a closed system or local and national regulations. Protective gloves. Safety glasses. A face-shield, if the situation requires. Protective clothing. Protective boots, if the situation requires. PROPERTIES Solid	
<u>Hand</u> Stora	Iling Technical measures: Advice on safe handling: age Storage conditions: Packaging material: KPOSURE CONTROLS / PE Engineering controls: Personal protective equipm Respiratory protection: Hand protection: Eye protection: Skin and body protection:	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. Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents. Law is followed. ERSONAL PROTECTION Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath. Potective gloves. Safety glasses. A face-shield, if the situation requires. Protective clothing. Protective boots, if the situation requires. PROPERTIES	
<u>Hand</u> Stora	Iling Technical measures: Advice on safe handling: age Storage conditions: Packaging material: KPOSURE CONTROLS / PE Engineering controls: Personal protective equipm Respiratory protection: Hand protection: Eye protection: Skin and body protection: HYSICAL AND CHEMICAL Physical state (20°C): Form: Color: Odor:	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. Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents. Law is followed. ERSONAL PROTECTION Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath. Protective gloves. Safety glasses. A face-shield, if the situation requires. Protective clothing. Protective boots, if the situation requires. PROPERTIES Solid crystal - powder White No data available	
<u>Hand</u> Stora	Iling Technical measures: Advice on safe handling: age Storage conditions: Packaging material: KPOSURE CONTROLS / PE Engineering controls: Personal protective equipm Respiratory protection: Hand protection: Eye protection: Skin and body protection: HYSICAL AND CHEMICAL Physical state (20°C): Form: Color:	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. Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents. Law is followed. ERSONAL PROTECTION Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath. Thent 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. PROPERTIES Solid crystal - powder White No data available	

9. PHYSICAL AND CHEMICAL PROPERTIES No data available Boiling Point/Range: Flash Point: No data available Explosive limits No data available Lower: No data available Upper: **Density:** No data available Solubility: Soluble in : Water

10. STABILITY AND REACTIVITY

Stability:	Stable under proper conditions.
Reactivity:	No special reactivity has been reported.
Incompartible materials:	oxidizing agents
Hazardous Decomposition	Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx), Hydrogen fluoride,
Products:	Hydrogen chloride

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):	
Mobillity in soil	
log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law	No data available
constant(PaM ³ /mol):	

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class:	Does not correspond to the classification standard of the United Nations
UN-No:	Not Listed

15. REGULATORY INFORMATION

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

16. OTHER INFORMATION

The reference company name of written contents

16. OTHER INFORMATION

Company:	TCI (Shanghai) DEVELOPMENT CO., LTD.
Address:	No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China
Department:	R&D (Information Management) Department
Telephone:	+86-(0)21-67121388*461
Fax:	+86-(0)21-67121385
MCDC was an an and share well	, and the basis of the information we could abteined be warned and we want to be liver to any disc the date

This MSDS 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 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.