

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product	name:
Product	code:

Product use: **Restrictions on use:**

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 4] Acute Toxicity - Dermal [Category 4] Acute Toxicity - Inhalation [Category 3] Eye Damage/Irritation [Category 1] Sensitization - Skin [Category 1] Flammable Liquids [Category 4] Aquatic Hazard (Acute) [Category 3] Skin Corrosion/Irritation [Category 1B]
Signal word:	Danger!
Hazard Statement(s):	Combustible liquid Toxic if inhaled Harmful if swallowed or in contact with skin Causes severe skin burns and eye damage May cause an allergic skin reaction Harmful to aquatic life

Benzoyl Chloride

For laboratory research purposes.

Not for drug or household use.

B0105

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal]

Hazards not otherwise classified: [HNOC]

TCI AMERICA SAFETY DATA SHEET

Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1-503-286-7624

chemical, dry sand or foam to extinguish.

Keep away from flames and hot surfaces. - No smoking. Do not breathe dusts or mists. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection. 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. In case of fire: Use dry

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

May develop pressure

3. COMPOSITION/INFORMATION O	N INGREDIENTS		
Substance/mixture:	Substance		
Components:	Benzoyl Chloride		
Percent:	>98.0%(GC)(T)		
CAS RN:	98-88-4		
Molecular Weight:	140.57		
Chemical Formula:	C7H₅ClO		
4. FIRST-AID MEASURES			
Description of 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:	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.		
Symptoms/effects:			
Acute:	Pain. Redness.		
Delayed:	No data available		
Indication of any immediate medical atten Not available. Notes to physician: No data available	ention:		
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media: Unsuitable extinguishing media:	Dry chemical, carbon dioxide. Water		
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Halogenated compounds WARNING: Highly toxic HCI gas is produced during combustion.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASURES			
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.		
Environmental precautions: Methods and materials for containment and cleaning up:	Prevent product from entering drains. 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		
Prevention of secondary hazards:	disposed of, in accordance with appropriate laws and regulations. Do not allow contact with water. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.		
7. HANDLING AND STORAGE			
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. 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.		
Conditions for safe storage, including an Storage conditions: Packaging material:	May develop pressure. Open carefully. ny incompatibilities 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. Moisture-sensitive Comply with laws.		

Exposure limits:

ACGIH TLV(CL):

Appropriate engineering controls:

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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	0.5 ppm	
	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed	

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Personal protective equipment	
Respiratory 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.
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): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Almost colorless Pungent No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	No data available 196°C (385°F) No data available 1.22 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. 4.9 No data available No data available
Flash point: Flammability(solid, gas):	72°C (162°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available 2.5% 27%
Solubility(ies): [Water] [Other solvents] Miscible:	No data available Ether, Benzene, Carbon disu		

10. STABILITY AND REACTIVITY

 Reactivity:
 No data available

 Chemical stability:
 Stable under proper conditions.

 Possibility of hazardous reactions:
 Decomposes in contact with water and liberates toxic gases.

 Conditions to avoid:
 Open flame, Moisture

 Incompatible materials:
 Oxidizing agents, Strong bases, Metals, Metal salts, Dimethyl sulfoxide(DMSO), Water, Alcohols, Amines

 Hazardous decomposition products:
 Carbon monoxide, carbon dioxide etc

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11. TOXICOLOGICAL INFORMATION

RTECS Number: DM6600000

Acute Toxicity: orl-rat LD50:1900 mg/kg	ihl-rat LC50:1870 mg/m³/2H	
Skin corrosion/irritation: No data available		
Serious eye damage/irritation: eye-rbt 0.1 mL SEV		
Respiratory or skin sensitization: No data available		
Germ cell mutagenicity: mmo-sat 1 umol/plate (+S9)	mmo-sat 5 mg/plate (-S9)	
Carcinogenicity: skn-mus TDLo:9200 mg/kg/50W-I		
IARC: Group 2A (Probably carcino to humans).	genic NTP: No data available OSHA: No data available	
Reproductive toxicity: No data available		
Target organ(s):	No data available	
12. ECOLOGICAL INFORMATION		
Ecotoxicity:		
Fish:	96h LC50:35 mg/L (Pimephales promelas)	
Crustacea:	No data available	
Algae:	No data available	
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available	
Log Pow:	No data available	
Soil adsorption (Koc):	No data available	
Henry's Law (PaM ³/mol):	No data available	
13. DISPOSAL CONSIDERATIONS Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and	
Local rules and regulations. 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. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil. Disposal of container: Dispose of as unused product. Do not re-use empty containers.		
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.	

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14. TRANSPORT INFORMATION

DOT (US) UN number: UN1736	Proper Shipping Na Benzoyl chloride	ame:	Class or Division: 8 Corrosive material	Packing Group: II
IATA UN number: UN1736	Proper Shipping Na Benzoyl chloride	ame:	Class or Division: 8 Corrosive material	Packing Group: II
IMDG UN UN1736 numb er:	Proper Shipping Na Benzoyl chloride	ame:	Class or Division: 8 Corrosive material	Packing Group: II
EmS number: Reportable Quanti	tiy:	F-A, S-B 1000 Pounds (454 ł	Kilograms)	

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regu	lations			
CERCLA Hazardous substance and Reportable Quantity:				
SARA 313:		Listed		
SARA 302:		Not Listed		
State Regulations	S			
State Right-to-Kn	low			
Massachuse	tts	Listed		
New Jersey		Listed		
Pennsylvania	a	Listed		
California Propos	sition 65:	Not Listed		
Other Information	n			
NFPA Rating:			HMIS Classification:	
Health:	3		Health:	3
Flammability:	2		Flammability:	2
Instability:	1		Physical:	1
International Inve	entories			
Canada: DSL		On DSL		
EC-No:		202-710-8		

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.