

Paushak Limited

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name	:	Sec. Butyl Chloroformate
CAS No.	:	17462-58-7
Company	:	Paushak Limited At: Panelav, PO:Tajpura, Taluka: Halol Distirict: Panchmahals - 389350 Gujarat, INDIA.
Telephone	:	+91 2676 664403 / 664412
Emergency Phone #	:	+91 9909985374

2. HAZARDS IDENTIFICATION

Classification: Acute toxicity (Oral) (Category 4)
Acute toxicity - Inhalation (Dusts/Mists) (Category 2)
Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 1)
Flammable liquids (Category 3)

Signal word: DANGER!

Hazard Statement(s): Harmful if swallowed
Fatal if inhaled
Causes skin irritation
Causes serious eye damage
Flammable liquid and vapor

Pictogram(s) or Symbol(s):



Precautionary Statement(s):

Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Do not breathe dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wear respiratory protection.
Wear protective gloves/protective clothing/eye protection/face protection.
Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
IF exposed or concerned: Get medical advice/attention
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/physician
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician

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<p>IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth In case of fire: Use CO₂, dry chemical, or foam for extinction Store in a well-ventilated place. Keep container tightly closed Store locked up Dispose of contents/container to an approved waste disposal plant</p>	
Hazards not otherwise classified:	[HNOC] No data available
3. COMPOSITION/INFORMATION ON INGREDIENTS	
Substance/Mixture:	Substance
Components:	Sec. Butyl Chloroformate
Percent:	>98.5
CAS Number:	17462-58-7
Molecular Weight:	
Chemical Formula:	
Synonyms:	Carbonyl chloride, 1-methylpropyl ester
CA Index:	No data available
4. FIRST AID MEASURES	
General Advice:	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation:	Call a physician or Poison Control Center immediately. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
Skin contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Call a physician immediately.
Eye contact:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Call a physician immediately.
Ingestion:	Call a physician or Poison Control Center immediately. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Remove from exposure, lie down.
Notes to Physician:	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Symptoms may be delayed. Keep victim under observation.
Protection of First-aiders:	Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
Symptoms/effects:	
Acute:	No data available
Delayed:	No data available
Immediate medical attention:	No data available
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Carbon dioxide (CO ₂). Dry powder. Dry chemical.
Unsuitable Extinguishing Media:	Water.
Specific hazards arising from the chemical	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. Avoid contact with iron.

Other specific hazards:		No data available
Protective Equipment and Precautions for Fire fighters: In the event of fire, wear self contained breathing apparatus. Corrosive hazard. Wear protective gloves/clothing and eye/face protection.		
Explosion Data:		
Sensitivity to mechanical impact:	None	
Sensitivity to static discharge:	Yes.	
6. ACCIDENTAL RELEASE MEASURES		
Personal precautions:	Evacuate personnel to safe areas. Remove all sources of ignition. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid contact with iron. Keep people away from and upwind of spill/leak.	
Methods for Containment:	Dike far ahead of liquid spill for later disposal. Dike for later disposal; do not apply water unless directed to do so. Prevent further leakage or spillage if safe to do so.	
Methods for Cleaning Up:	Use personal protective equipment. Dam up. Neutralise with soda ash (sodium carbonate) or lime over area of spill. Cover liquid spill with sand, earth or other non combustible absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not direct water at spill or source of leak. Prevent product and washings from entering drains, sewers or surface water due to high toxicity to aquatic organisms.	
Other Information:	Refer to protective measures listed in Sections 7 and 8. Use fine water spray to reduce vapors; do not put water directly on point of material release from container.	
7. HANDLING AND STORAGE		
Precautions for safe handling:	Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Wear personal protective equipment. Prevent breathing of mist or vapors. Prevent contact with skin, eyes and clothing. Always wear a self-contained breathing apparatus or full face airline respirator when using this chemical.	
Conditions for safe storage:	Material should be store below 8°C in dry and well ventilated place. Keep Avoid any contact with iron. Keep container tightly closed in a dry and well-ventilated place.	
Storage incompatibilities:	Material should be store below 8°C in dry and well ventilated place	
8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
Exposure limits:	No data available	
Appropriate engineering controls:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	
Personal protective equipment		
Respiratory protection:	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).	
Hand protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.	
Eye protection:	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards.	
Skin and body protection:	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.	
Control of environmental exposure	Do not let product enter drains.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Solid
Form:	No data available
Color:	No data available
Odor:	No data available
Odor threshold:	No data available
Melting point/freezing point:	293 °C - dec.
Boiling point/range:	122°C
Decomposition temperature:	No data available
Relative density:	No data available
Kinematic Viscosity:	No data available
Partition coefficient: n-octanol/water (log Pow)	No data available
Flash point:	27°C
Flammability (solid, gas):	No data available
pH:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Dynamic Viscosity:	No data available
Evaporation rate: (Butyl Acetate = 1)	No data available
Autoignition temperature:	No data available
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Solubility(ies):	

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	No data available
Conditions to avoid:	No data available
Incompatible materials:	Strong oxidizing agents
Hazardous Decomposition Products:	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides

11. TOXICOLOGICAL INFORMATION

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 component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No data available
OSHA:	No data available
Routes of Exposure:	No data available
Symptoms related to exposure:	No data available

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Potential Health Effects:		No data available		
Target organ(s):		No data available		
12. ECOLOGICAL INFORMATION				
Ecotoxicity				
Fish:		No data available		
Crustacea:		No data available		
Algae:		No data available		
Persistence and degradability:		No data available		
Bioaccumulative potential (BCF):		No data available		
Mobillity in soil:		No data available		
Partition coefficient:		No data available		
n-octanol/water (log Pow)		No data available		
Soil adsorption (Koc):		No data available		
Henry's Law: constant (PaM3/mol)		No data available		
13. DISPOSAL CONSIDERATIONS				
Disposal of product:		Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical scrubber.		
Disposal of container:		Dispose of as unused product.		
Other considerations:		No data available		
14. TRANSPORT INFORMATION				
DOT (US)				
UN number:	Proper Shipping Name:	Class or Division:	Subrisk(s):	Packing Group:
UN2742	Chloroformates, toxic, corrosive, flammable, n.o.s.	6.1	8/3	II
IATA				
UN number:	Proper Shipping Name:	Class or Division:	Subrisk(s):	Packing Group:
UN2742	Chloroformates, toxic, corrosive, flammable, n.o.s.	6.1	8/3	II
IMDG				
UN number:	Proper Shipping Name:	Class or Division:	Subrisk(s):	Packing Group:
UN2742	Chloroformates, toxic, corrosive, flammable, n.o.s.	6.1	8/3	II
EmS number:		F-E, S-C		
15. REGULATORY INFORMATION				
Toxic Substance Control Act (TSCA 8b.): No data available				
US Federal Regulations				
CERCLA Hazardous substance and Reportable Quantity:				
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulations				

