

# **MATERIAL SAFETY DATA SHEET (MSDS)**

**SECTION 1: Identification** 

1.1	Product identifiers	
	Product Name :	3-Chloropropionyl chloride
	Cat No.:	B25698
	CAS No. :	625-36-5
1.2	Relevant identified uses of	the substance or mixture and uses advised against
	Recommended uses :	Laboratory chemicals
	Uses advised against:	Food, drug, pesticide or biocidal product use.
1.3	Details of the supplier of th	e safety data sheet
	Company :	Krishna Solvechem Limited. B/503, Sahayog, S. V. Road, Kandivali (West), Mumbai – 400067. India.
	Telephone :	+91-22-6123 0222
	Email :	exports@kscl.co.in
1.4	Emergency telephone num	ber
	Emergency Phone :	+91-8657457330
	SE	CTION 2: Hazards identification
2.1	<b>Classification</b>	
	This chemical is considered (29 CFR 1910.1200)	hazardous by the 2012 OSHA Hazard Communication Standard
	Flammable liquids	(Category 4)
	Skin Corrosion/Irritation	(Category 1 A)
	Serious Eye Damage/Eye Ir	
	Acute oral toxicity	(Category 4)
	Acute inhalation toxicity –	
2.2	Corrosive to metals	(Category 1)
2.2	Label elements Pictogram :	
1	Signal word	Danger

Hazard statement (s)

Combustible liquid. Harmful if swallowed



	May be corrosive to metals
	Causes severe skin burns
	and eye damage
	Fatal if inhaled
Precautionary statement (s)	
Prevention	
revention	Wash face, hands and any exposed skin thoroughly after handling
	Wear protective gloves/protective clothing/eye protection/face protection
	Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area
	Keep away from heat/sparks/open flames/hot surfaces No smoking
	Keep container tightly closed
	Do not eat, drink or smoke when using this product
	Keep cool
	Wear respiratory protection
	Inhalation :
	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or
	doctor/physician if you feel unwell
	IF ON SKIN (or hair):
	If skin irritation occurs: Get medical advice/attention
	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
	Wash contaminated clothing before reuse
	Eyes:
	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/attentior
	Fire
	In case of fire: Use CO2, dry chemical, or foam for extinctior Ingestion:
	Rinse mouth. DO NOT induce vomiting Storage:
	Store locked up Store in a well-ventilated place.
	Keep container tightly closed
	Store in corrosive resistant polypropylene container with a resistant in liner.



#### Disposal:

CECTION A E'

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Corrosive to the respiratory tract

• •

# **SECTION 3: Composition / information on ingredients**

3.1							
CAS-No	Weight %						
625-36-5	<=100						

	SECTION 4: First aid measures							
4.1	Description of first aid measu	res						
	General Advice:	If symptoms persist, call a physician.						
	If inhalation :	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.						
	In case of skin contact :	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.						
	In case of eye contact :	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.						
	Ingestion :	Do NOT induce vomiting. Call a physician or poison control center immediately.						
4.2	Most important symptoms and effects :	Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation						
4.3	Notes to Physician :	Treat symptomatically						
	SEC	CTION 5: Firefighting effects						
5.1	Extinguishing media							
	Suitable extinguishing media :	Water spray, carbon dioxide (CO2), dry chemical, alcohol- resistant foam. Water mist may be used to cool closed containers.						
	Unsuitable Extinguishing Media: :	Water						
5.2	Flash Point : Method :	70.5 °C / 158.9 °F No information available						



		4	2	1	N/A				
	NFPA:	Health	Flammability	Instability	Physical hazards				
5.4	Protective Equipment and Precautions for Firefighters:	•	wear self-contain and, MSHA/NIOSF gear.	• •	•				
	Hazardous Combustion Products :	Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen chlo gas							
	Specific Hazards Arising from the Chemical :	Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Combustible material. Containers may explode when heated.							
	Sensitivity to Static Discharge	No information available							
	Sensitivity to Mechanical Impact	No informatio	n available						
	Lower	8.80%							
	Explosion Limits: Upper	20.20%							
	Autoignition Temperature:	490 °C / 914	°F						

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges

# 6.2 Environmental precautions

Should not be released into the environment.

# 6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition.



### 7.2 Conditions for safe storage

Keep away from heat, sparks and flame. Protect from moisture. Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Incompatible Materials. Alcohols. Metals. Strong oxidizing agents. Strong Alkalis.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **Engineering Measures**

Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

#### 8.2 Exposure controls

#### Personal protective equipment -

#### Eye / Face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin protection and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

# **Respiratory protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

# Recommended filter type:

Particulates filter conforming to EN 143. Acid gases filter. Type E. Yellow. conforming to EN14387.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice..

# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

a) Appearance	Colorless to brown Liquid				
b) Odour	Acrid				
c) Odour Threshold	No information available				
d) pH	< 7				
e) Melting point / freezing point	-32 °C / -25.6 °F				
f) Initial boiling point and	143 - 145 °C / 289.4 - 293 °F @ 760 mmHg				



boiling range	
g) Flash point	70.5 °C / 158.9 °F
h) Evaporation rate	No information available
i) Flammability (solid, gas)	Not applicable
j) Upper/lower	Upper : 20.20%
flammability or	Lower : 8.80%
explosive limits	
k) Vapour pressure	10 mbar @ 20 °C
l) Vapour density	4.4
m) Specific Gravity	1.330
n) Solubility	No information available
o) Partition coefficient: n octanol/water	No data available
p) Auto-ignition	490 °C / 914 °F
temperature	
q) Decomposition	30 °C.
temperature	
r) Viscosity	1.4 mPa s at 20 °C
s) Molecular formula	C3 H4 Cl2 O
t) Molecular Weight	126.97

# SECTION 10: Stability and Reactivity

10.1	Reactive Hazard :	None known, based on information available
10.2	Chemical stability :	Reacts violently with water. Moisture sensitive
10.3	Possibility of hazardous reactions :	None under normal processing.
10.4	Conditions to avoid :	Keep away from open flames, hot surfaces and sources of ignition. Excess heat. Exposure to light. Incompatible products.
10.5	Incompatible materials:	Strong oxidizing agents, Strong bases
10.6	Hazardous decomposition products :	Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride gas
10.7	Hazardous Polymerization	No information available



SECTION 11: Toxicological information									
11.1									
Information on toxic	ological ef	fects							
Acute toxicity:									
Product Information									
Component Informa Component	tion	LD50 Oral			LD50 Dermal		0 Inhalation		
Propanoyl chloride,		ca 1130			Not listed		95 mg/L/1h (Rat)		
3-chloro-		mg/kg (Rat)			Not listed	×0.5	5 mg/ L/ 11 (Nat)		
Toxicologically Syne	rgistic Proc		N	lo inf	ormation availa	able			
Delayed and ir	nmediate	effects as wo	ell as ch	ronio	effects from s	hort and lon	g-term exposure		
Irritation :			N	lo inf	ormation availa	able			
Sensitization:			N	lo inf	ormation availa	able			
Carcinogenicit	y:						r each agency ha		
			A	ny ir	ngredient as a c	arcinogen.			
Component	CAS-No	IARC	NTF	>	ACGIH	OSHA	Mexico		
Propanoyl	625-36-	Not listed	Not		Not listed	Not listed	Not listed		
chloride, 3-	5	Not listed	listed		Not listed	Not listed	Not listed		
chloro-									
Mutagenic Effe	octs:		No	No information available.					
Reproductive			No information available.						
Developmenta	l Effects :		No information available.						
Teratogenicity	:		No information available.						
STOT - single e	xposure :		None known						
STOT - repeate	ed exposur	e:	None known						
Aspiration haz			No information available.						
Symptoms / e	ffects, both	acute and	Symptoms of overexposure may be headache,						
delayed:				dizziness, tiredness, nausea and vomiting:					
				Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be					
			•			• •			
				-	ated: Ingestion		-		
					damage to the o pration	uencale lissu	e and danger		
Endocrine Disr	uptor Info	rmation :	-		mation availabl	е			
			_ `						
Other Adverse	Effects :			The toxicological properties have not been fully					
			inve	estiga	ated.				



# **SECTION 12: Ecological information**

12.1 Ecoto									
Frata									
	oxicity:		Do n	ot empty into d	Irains.				
Comp	onent	Freshwater Algae		Freshwater Fish	Microtox	Water Flea			
-	noyl chloride, 3-	Not listed		(96 h) > 100 - <	Not listed	Not listed			
chloro-			215 r	•					
	<u> </u>			hydanio rerio)					
12.2 Persistence and degradability: Soluble in water Persistence is unlikely based on inform Available. Reacts with water									
	Bioaccumulat Accumulatior	-	No in	formation avail	lable				
12.3	Mobility:		Will li solut	-	in the environment	due to its water			
		SECTI	ON 13: D	isposal cons	iderations				
					vaste generators mus ensure complete and				
		SECT	ION 14: <sup>-</sup>	Transport inf	ormation				
14.1	UN number :								
	DOT: UN3390 IMDG: UN339		N3390						
14.2	DOT: UN3390 IMDG: UN339 <b>UN proper shi</b>	90	N3390						
14.2	IMDG: UN33	90		Y INHALATION I	LIQUID, CORROSIVE, I	 N.O.S.			
14.2	IMDG: UN339 UN proper shi	90	TOXIC B		LIQUID, CORROSIVE, I LIQUID, CORROSIVE, I				
	IMDG: UN33 UN proper shi DOT :	90	TOXIC B TOXIC B TOXIC B	Y INHALATION I	· · ·	N.O.S.			
	IMDG: UN339 UN proper shi DOT : IMDG :	90 pping name	TOXIC B TOXIC B TOXIC B	Y INHALATION I Y INHALATION I A TRANSPORT	LIQUID, CORROSIVE, I	N.O.S.			
14.3	IMDG: UN339 UN proper shi DOT : IMDG : IATA :	90 pping name	TOXIC B TOXIC B TOXIC B FOR IAT	Y INHALATION I Y INHALATION I A TRANSPORT	LIQUID, CORROSIVE, I LIQUID, CORROSIVE,	N.O.S. N.O.S.* FORBIDDEN			
14.3	IMDG: UN339 UN proper shi DOT : IMDG : IATA : Transport haz	90 pping name card class(es)	TOXIC B TOXIC B TOXIC B FOR IAT DOT: 6.1 DOT: 1	Y INHALATION I Y INHALATION I A TRANSPORT	LIQUID, CORROSIVE, I LIQUID, CORROSIVE, IMDG: 6.1 IMDG: I	N.O.S. N.O.S.* FORBIDDEN IATA: 6.1			
14.3 14.4	IMDG: UN339 UN proper shi DOT : IMDG : IATA : Transport haz Packaging gro	90 pping name ard class(es) pup: SECTI of America Inve	TOXIC B TOXIC B TOXIC B FOR IAT DOT: 6.1 DOT: 1 ON 15: R ntory:	Y INHALATION I Y INHALATION I A TRANSPORT L Regulatory in	LIQUID, CORROSIVE, I LIQUID, CORROSIVE, IMDG: 6.1 IMDG: I	N.O.S. N.O.S.* FORBIDDEN IATA: 6.1 IATA: I			
14.3 14.4	IMDG: UN339 UN proper shi DOT : IMDG : IATA : Transport haz Packaging gro	90 pping name ard class(es) pup: SECTI of America Inve	TOXIC B TOXIC B TOXIC B FOR IAT DOT: 6.1 DOT: 1 ON 15: R ntory:	Y INHALATION I Y INHALATION I A TRANSPORT L	LIQUID, CORROSIVE, I LIQUID, CORROSIVE, IMDG: 6.1 IMDG: I	N.O.S. N.O.S.* FORBIDDEN IATA: 6.1 IATA: I TSCA - EPA			
14.3 14.4	IMDG: UN333 UN proper shi DOT : IMDG : IATA : Transport haz Packaging gro	epping name exard class(es) pup: SECTI of America Inve nt CAS- 625-	TOXIC B' TOXIC B TOXIC B FOR IAT, DOT: 6.1 DOT: 1 ON 15: R ntory: No	Y INHALATION I Y INHALATION I A TRANSPORT L Regulatory in	LIQUID, CORROSIVE, I LIQUID, CORROSIVE, I IMDG: 6.1 IMDG: I formation TSCA Inventory notification	N.O.S. N.O.S.* FORBIDDEN IATA: 6.1 IATA: I			



<b>TSCA</b> - Toxic Substances Control Act, (40 CFR Part 710)						
X - Listed						
'-' - Not Listed						
TSCA 12(b) - Notices of Export	Not applicable					

# **International Inventories:**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan(ISHL), Australia(AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Propanoyl	625	-	Х	210-890-4	Х	Х	Х	Х	Х	KE-05881
chloride, 3-	-36-									
chloro-	5									

# **U.S. Federal Regulations**

SARA 313

SARA 311/312 Hazard Categories

CWA (Clean Water Act)

Clean Air Act

**OSHA** - Occupational Safety and Health Administration

California Proposition 65

# CERCLA

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

This product does not contain any Proposition 65

See section 2 for more information

chemicals.

15.2 U.S. State Right-to-Know Regulations:

Not applicable

U.S. Department of Transportation		
Reportable Quantity (RQ):	Ν	
DOT Marine Pollutant	Ν	
DOT Severe Marine Pollutant	Ν	



# **U.S. Department of Homeland -** This product does not contain the any DHS Chemicals. **Security**

### **Other International Regulations**

Mexico – Grade No information available

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Propanoyl chloride, 3- chloro-	625-36-5	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III	Seveso III	Rotterdam	Basel
		Directive (2012/18/EC) - Qualifying Quantities for	Directive (2012/18/EC) - Qualifying Quantities for	Convention (PIC)	Convention (Hazardous Waste)
		Major Accident Notification	Safety Report Requirements		
Propanoyl chloride, 3- chloro-	625-36-5	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 16: Other information				
16.1	Prepared By:	Regulatory affairs		
		Krishna Solvechem		
		Limited		
	Email:	exports@kscl.co.in		
	Creation Date:	23-Mar-2012		
	<b>Revision Date:</b>	19-Jan-2023		
	Print Date:	19-Jan-2023		
	<b>Revision Summary:</b>	This document has been updated to comply with the US OSHA		
		HazCom 2012 Standard replacing the current legislation		
		under29 C F R 1910.1200 to align with the Globally		
		Harmonized System of Classification and Labeling of		
		Chemicals (GHS).		
16 2	Disclaimor			

# 16.2 Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.