SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	Revision number: 2		
ECTION 1: Identification of the	e substance/mixture and of th	ne company/undertaking	
Product identifiers			
Product name:	Isobutyryl Chloride 10115		
Product code:	10115		
Relevant identified uses of the s Identified uses:	ubstance or mixture and uses a Reagents.	dvised against	
Details of the supplier of the saf	ety data sheet		
applier:			
TCI EUROPE N.V. Boerenveldseweg 6			
Haven 1063			
B-2070 Zwijndrecht			
Telephone: +32(0)3 735 07			
E-mail: sales-eu@tcichemi	cals.com		
Emergency telephone number:	+32(0)70 245 245		
CTION 2: Hazards identificat			
Classification of the substance Flammable liquids	or mixture	Category 2	
Corrosive to metals		Category 1	
Acute toxicity (Oral)		Category 4	
Acute toxicity (Inhalation)		Category 2	
Skin corrosion/irritation		Category 1A	
Serious eye damage/eye irritati	0, 1		
2 Label elements Pictograms or hazard symbols		Category 1	
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Label elements Pictograms or hazard symbols		Category 1	
Label elements Pictograms or hazard symbols	Danger		
Label elements Pictograms or hazard symbols		d and vapour.	
Label elements Pictograms or hazard symbols	Danger H225-Highly flammable liqui H314-Causes severe skin bu H290-May be corrosive to m	d and vapour. urns and eye damage.	
Label elements Pictograms or hazard symbols	Danger H225-Highly flammable liqui H314-Causes severe skin bu H290-May be corrosive to m H302-Harmful if swallowed.	d and vapour. urns and eye damage.	
Label elements Pictograms or hazard symbols	Danger H225-Highly flammable liqui H314-Causes severe skin bu H290-May be corrosive to m H302-Harmful if swallowed. H330-Fatal if inhaled.	d and vapour. urns and eye damage. etals.	
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SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	Isobutyryl Chloride
Percent:	>98.0%(GC)(T)
CAS RN:	79-30-1
EC-No:	201-194-1
Chemical Formula:	C4H7CIO

SECTION 4: First aid measures	
4.1 Description of first aid measures	S
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.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed No data available

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION E: Eirofighting monsures		
SECTION 5: Firefighting measures 5.1 Extinguishing media		
Suitable extinguishing media: Unsuitable extinguishing media:	Dry chemical, carbon dioxide. Water	
5.2 Special hazards arising from the substance or mixture	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon monoxide, Carbon dioxide, Hydrogen chloride	
5.3 Advice 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: Keep containers cool by spraying with water but NO direct contact with water. Eliminate all ignition sources if safe to do so. When extinguishing fire, be sure to wear personal protective equipment	
SECTION 6: Accidental release mea	asures	
6.1 Personal precautions, protective equipment and emergency procedures	Use extra personal protective equipment (self-contained breathing apparatus). 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	
6.2 Environmental precautions	Prevent product from entering drains	

6.3 Methods and materials for	Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In
containment and cleaning up	case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be
	promptly 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.

6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage			
7.1 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 heat/sparks/open flame/hot surfacesNo smoking. 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. May develop pressure. Open carefully. Use corrosive resistant equipment.		
7.2 Conditions for safe storage, including any 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		
7.3 Specific end use(s)	No further relevant information available.		
SECTION 8: Exposure controls/per	sonal protection		
8.1 Control parameters	No data available		
8.2 Exposure controls	Install a closed system or local exhaust. Also install safety shower and eye bath.		
Respiratory protection: Hand protection: Eye protection: Skin and body 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. Impervious gloves. Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires.		
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SECTION 9: Physical and chemical properties 0.1 Information on basic physical and chemical properties			
Physical state (20°C):	Liquid		
Form:	Clear		
Colour:	Colorless - Very pale yellow		
Odour:	No data available		
pH:	No data available		
Melting point/freezing point:	No data available		
Boiling point/range:	93°C		
Flash point:	9°C		
Evaporation rate(Butyl Acetate=1):	No data available		
Flammability(solid, gas):	No data available		
Flammability or explosive limits:			
Lower:	2.1%		
Upper:	8.5%		
Vapour pressure:	5.7kPa/20°C		
Vapour density:	No data available		
Relative density:	1.01		
Solubility(ies):			
[Water]	No data available		
[Other solvents]	No data available		
Partition coefficient:	No data available		
n-octanol/water:			
Autoignition temperature:	325°C		
Decomposition temperature:	No data available		
Dynamic Viscosity:	No data available		
Kinematic viscosity:	No data available		
9.2 Other safety information	No data available		

SECTION 10: Stability and reactivity		
10.1 Reactivity	No data available	
10.2 Chemical stability	Stable under proper conditions.	
10.3 Possibility of hazardous reactions	Decomposes in contact with water and liberates toxic gases.	
10.4 Conditions to avoid	Spark, Open flame, Static discharge, Moisture	
10.5 Incompatible materials	Oxidizing agents, Bases	

**10.6 Hazardous decomposition products** Carbon monoxide, Carbon dioxide, Hydrogen chloride

## SECTION 11: Toxicological information

1.1 Information on toxicological effects	
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 data available
NTP =	No data available
Reproductive toxicity:	No data available
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available
RTECS Number:	UC3944000

SECTION 12: Ecological information			
12.1 Toxicity			
Fish:	No data available		
Crustacea:	No data available		
Algae:	No data available		
12.2 Persistence and degradability	No data available		
12.3 Bioaccumulative potential	No data available		
12.4 Mobility in soil			
Log Pow:	No data available		
Soil adsorption (Koc):	No data available		
Henry's Law (PaM <sup>3</sup> /mol):	No data available		
12.5 Results of PBT and vPvB assess	ment		
PBT:	Not applicable		
vPvB:	Not applicable		
12.6 Other adverse effects	No data available		

SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system but exert extra care in igniting as this material is highly flammable. Observe all federal, state and local regulations when disposing of the substance

SECTION 14: Transport informati	on	
14.1 UN number	2395	
14.2 UN proper shipping name		
ADR/RID	Isobutyryl chloride	
IMDG/IMO	Isobutyryl chloride	
ICAO/IATA	Isobutyryl chloride	
14.3 Transport hazard class(es)		
ADR/RID	3: Flammable liquid	
Subsidiary risk:	8: Corrosive.	
IMDG/IMO	3: Flammable liquid	
Subsidiary risk:	8: Corrosive.	
ICAO/IATA	3: Flammable liquid	
Subsidiary risk:	8: Corrosive.	
14.4 Packaging group		
ADR/RID	Ш	
IMDG/IMO	Ш	
ΙCAO/ΙΑΤΑ	II	
14.5 Environmental hazards		
Marine pollutant	-	
14.6 Special precautions for user	No data available	
SECTION 15: Regulatory information	tion	
15.1 Safety, health and environmental	regulations/legislation spe	
Water Hazard Classes (WGK) :		Class 1 - Low hazard to waters
Substance of Very High Concern REACH Regulations (EC) No.1907		Not listed
15.2 Chemical safety assessment		A chemical safety assessment has not been carried out.
SECTION 16: Other information		
Prepared by:	TCI EUROPE N.V.	
Issue date:	03/22/2024	
This SDS was prepared sincerely on the	basis of the information we c	ould 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. 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.

## End of Safety Data Sheet