**C**I TCI EUROPE N.V.

# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	evision number: 1	Revision date: 10/02/2018
SECTION 1: Identification of the	substance/mixture and of the company/undertaking	1
1.1 Product identifiers		
Product name:	4-Chlorostyrene (stabilized with TBC)	
Product code:	C0290	
1.2 Relevant identified uses of the su Identified uses:	ubstance or mixture and uses advised against Reagents.	
1.3 Details of the supplier of the safe	ety data sheet	
Supplier:		
TCI EUROPE N.V.		
Boerenveldseweg 6		
Haven 1063		
B-2070 Zwijndrecht	00	
Telephone: +32(0)3 735 07 E-mail: sales-eu@tcichemic		
1.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identification		
2.1 Classification of the substance o Acute toxicity (Oral)	or mixture Category 4	
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Acute toxicity (Dermal)	Category 4	
Acute toxicity (Inhalation)	Category 4	
Skin corrosion/irritation	Category 2	
Skin corrosion/irritation Serious eye damage/eye irritatio 2.2 Label elements Pictograms or hazard symbols	Category 2	
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#### SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	4-Chlorostyrene (stabilized with TBC)
Percent:	>98.0%(GC)
CAS RN:	1073-67-2
EC-No:	214-028-8
Chemical Formula:	C8H7CI

## SECTION 4: First aid measures

4.1 Description of first aid measures	
Inhalation:	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.
Skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation
	or rash occurs: Get medical advice/attention.
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 advice/attention.
Ingestion:	Call a POISON CENTER or doctor/physician 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.
Trotection of mist-alders.	

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 5: Firefighting measures		
5.1 Extinguishing media		
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.	
Unsuitable extinguishing media:	Solid streams of water	
5.2 Special hazards arising from the substance or mixture	This substance may polimerize explosively when heated or involved in a fire. Container may explode when heated. Combat fire from a sheltered position.	
	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon dioxide, Carbon monoxide, 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. Eliminate all ignition sources if safe to do so. When extinguishing fire, be sure to wear personal protective equipment	
SECTION 6: Accidental release measures		
6.1 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	

6.2 Environmental precautions Prevent product from entering drains
6.3 Methods and materials for containment and cleaning up promptly disposed of, in accordance with appropriate laws and regulations. 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 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.	
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a refrigerator. Store away from incompatible materials such as oxidizing agents. Heat-sensitive, Light-sensitive	
7.3 Specific end use(s)	No further relevant information available.	
C0290	4-Chlorostyrene (stabilized with Page 2 of 5 TBC)	

SECTION 8: Exposure controls/personal protection		
8.1 Control parameters	No data available	
8.2 Exposure controls	Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.	
Respiratory protection: Hand protection: Eye protection:	Vapor respirator. Follow local and national regulations. Protective gloves. Safety glasses. A face-shield, if the situation requires.	
Skin and body protection:	Protective clothing. Protective boots, if the situation requires.	

9.1 Information on basic physical and ch	nemical properties
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Slightly pale yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	No data available
Flash point:	64°C
Evaporation rate(Butyl Acetate=1):	No data available
Flammability(solid, gas):	No data available
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Vapour pressure:	0.1kPa/25°C
Vapour density:	No data available
Relative density:	1.09
Solubility(ies):	
[Water]	Insoluble (81mg/L, 25°C)
[Other solvents]	
Soluble:	Ether, Alcohols, Benzene, Acetone, Carbon tetrachloride, Petroleum ether
Partition coefficient:	3.54
n-octanol/water:	
Autoignition temperature:	479°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	Polymerization may occur under the influences of heat, light or on contact with polymerization initiators such as peroxides etc.	
10.3 Possibility of hazardous reactions	No special reactivity has been reported.	
10.4 Conditions to avoid	Heat, Open flame, Light	
10.5 Incompatible materials	Oxidizing agents, Acids, Bases, Halogens	
10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Hydrogen chloride		

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### SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	ihl-rbt TCLo:1250 mg/m3/40M
	ihl-hmn TCLo:1000 mg/m <sup>3</sup> /1M
	skn-hmn TDLo:100 pph
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:	CZ0533000

#### 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	100	
12.4 Mobility in soil		
Log Pow:	3.54	
Soil adsorption (Koc):	840	
Henry's Law (PaM ³/mol):	2.1 x 10 <sup>2</sup>	
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 considera	tions	

### 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. Observe all federal, state and local regulations when disposing of the substance.

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SECTION 14: Transport informat	ion		
14.1 UN number	Not listed		
14.2 UN proper shipping name			
ADR/RID	Not listed		
IMDG/IMO	Not listed		
ΙCAO/ΙΑΤΑ	Not listed		
14.3 Transport hazard class(es)			
ADR/RID	Does not correspond to the classification standard of the United Nations		
IMDG/IMO	Does not correspond to the classification standard of the United Nations		
ICAO/IATA	Does not correspond to the classification standard of the United Nations		
14.4 Packaging group			
ADR/RID	-		
IMDG/IMO	-		
ICAO/IATA	-		
14.5 Environmental hazards			
Marine pollutant	-		
14.6 Special precautions for user	No data available		
SECTION 15: Regulatory informa	tion		
15.1 Safety, health and environmenta Substance of Very High Concern REACH Regulations (EC) No.190			

#### 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:	10/02/2018

This SDS 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. 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

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