SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	Revision number: 1	
SECTION 1: Identification of th	e substance/mixture and of th	he company/undertaking
.1 Product identifiers		
Product name:	Tetrachloroisophthalonitrile	
Product code:	T0895	
.2 Relevant identified uses of the s Identified uses:	substance or mixture and uses a Reagents.	dvised against
.3 Details of the supplier of the sa	fety data sheet	
Supplier:		
TCI EUROPE N.V.		
Boerenveldseweg 6		
Haven 1063 B-2070 Zwijndrecht		
Telephone: +32(0)3 735 07	7.00	
E-mail: sales-eu@tcichemi		
4 Emergency telephone number:	+32(0)70 245 245	
ECTION 2: Hazards identificat	tion	
1 Classification of the substance		Ontering 0
Acute toxicity (Inhalation)		Category 2
Serious eye damage/eye irritati	on	Category 1
Skin sensitization		Category 1
Carcinogenicity		Category 2
Specific target organ toxicity -	Single exposure [Category 3]	Respiratory tract irritation
Acute aquatic hazard Long-term aquatic hazard 2 Label elements Pictograms or hazard symbols		Category 1 Category 1
Long-term aquatic hazard	Danger	Category 1
Long-term aquatic hazard 2 Label elements Pictograms or hazard symbols	Danger H330-Fatal if inhaled. H318-Causes serious eye da H317-May cause an allergic H351-Suspected of causing H335-May cause respiratory H400-Very toxic to aquatic li	Category 1 Category 1 amage. skin reaction. cancer. irritation. fe.
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SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	Tetrachloroisophthalonitrile
Percent:	>98.0%(GC)
CAS RN:	1897-45-6
EC-No:	217-588-1
Synonyms:	Chlorothalonil, Perchloroisophthalonitrile
Chemical Formula:	C8Cl4N2

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. Immediately call a POISON CENTER or doctor/physician. Skin contact: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Eye contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention. Ingestion: Get medical advice/attention. Rinse mouth. 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 5: Firefighting measures		
5.1 Extinguishing media		
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.	
5.2 Special hazards arising from the substance or mixture	Carbon monoxide, carbon dioxide etc	
5.3 Advice for firefighters	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method accordin to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sur 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. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc	
6.2 Environmental precautions	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned	
6.3 Methods and materials for containment and cleaning up	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.	
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 dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid all contact!	
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.	

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection	
No data available	
Install a closed system or local exhaust. Also install safety shower and eye bath.	
Dust 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.	

SECTION 9: Physical and chemical properties

1 Information on basic physical and cl	
Physical state (20°C):	Solid
Form:	Crystal - Powder
Colour:	White - Slightly pale yellow
Odour:	Odorless
pH:	No data available
Melting point/freezing point:	251°C
Boiling point/range:	350°C
Flash point:	No data available
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:	<1.3Pa/40°C
Vapour density:	No data available
Relative density:	No data available
Solubility(ies):	
[Water]	Insoluble (0.6mg/L, 25°C)
[Other solvents]	
Soluble:	Benzene, Xylene
Slightly soluble:	Acetone, Cyclohexane
Partition coefficient:	4.38
n-octanol/water:	
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available
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	No special reactivity has been reported.
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	Oxidizing agents, Strong acids
10.6 Hazardous decomposition products	Carbon monoxide, carbon dioxide etc

SECTION 11: Toxicological information

11.1 Information on toxicological effects	i
Acute Toxicity:	ihl-rat LC50:310 mg/m³/1H
	orl-rat LD50:10 g/kg
	skn-rbt LD50:>10 g/kg
	ipr-mus LD50:2500 ug/kg
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	mmo-sat 1 mg/plate (+S9)
	mmo-asn 800 ug/L (-S9)
	dnd-hmn-lym 50 umol/L
Carcinogenicity:	orl-rat TDLo:142 g/kg/80W-C
IARC =	Group 2B (Possibly carcinogenic to humans)
NTP =	No data available
Reproductive toxicity:	orl-rat TDLo:1.2 g/kg (1-6D preg)
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available
RTECS Number:	NT2600000

SECTION 12: Ecological information		
12.1 Toxicity		
Fish:	48h LC50:0.28 ppm (Oryzias latipes)	
Crustacea:	No data available	
Algae:	No data available	
12.2 Persistence and degradability	0% (by BOD) , 1.8 % (by GC)	
12.3 Bioaccumulative potential	0.1 - 2.7 (conc. 30 ppb) , 1.3 - 125 (conc. 3 ppb)	
12.4 Mobility in soil		
Log Pow:	4.38	
Soil adsorption (Koc):	1800	
Henry's Law (PaM ³/mol):	2 x 10 ⁻²	
12.5 Results of PBT and vPvB assessn	nent	
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 dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

SECTION 14: Transport informat	ion	
14.1 UN number	3439	
14.2 UN proper shipping name		
ADR/RID	Nitriles, solid, toxic, n.o.s	
IMDG/IMO	Nitriles, solid, toxic, n.o.s	
ICAO/IATA	Nitriles, solid, toxic, n.o.s	
14.3 Transport hazard class(es)		
ADR/RID	6.1: Toxic substance	
IMDG/IMO	6.1: Toxic substance	
ICAO/IATA	6.1: Toxic substance	
14.4 Packaging group		
ADR/RID	П	
IMDG/IMO	П	
ICAO/IATA	II	
14.5 Environmental hazards		
Marine pollutant	Y	
14.6 Special precautions for user	No data available	
SECTION 15: Regulatory informa	ntion	
15.1 Safety, health and environmenta Water Hazard Classes (WGK) :	I regulations/legislation spec	cific for the substance or mixture Class 3 - Severe hazard to waters
Water Hazard Classes (WGK) : Substance of Very High Concern (SVHC) according to the		Not listed
REACH Regulations (EC) No.190		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:	10/03/2018	

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