

Revision n. IV - 29.11.2022 Replaces revision n III - 15.09.2022

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

	TIFICATION OF THE SUBSTAINCE/			ANT/UNDERTAKING	
1.1	Product identifier				
	Chemical name	Product c	ode		
	Clorotris(trifenilfosfina)rodio(I)	202			
	C.A.S. Registry Number	14694-95-	2		
	EC Number	238-744-5			
	Molecular weight	925,2 g/m	ol		
	Brut Formula	C54H45ClF	P3Rh		
	Reach registration number	A REACH r	egistration num	ber is not available for this	
		substance	as the annual ye	ear produced or imported is less	
		than one t	onne.		
1.2	Relevant identified uses of the substance or mixture and uses advised against				
	Intended uses	Industrial u	se		
	Use advised against	Check secti			
1.3	Details of the supplier of the sa				
	Name	-	GGI ENRICO S.P.	۹.	
	Adress	Via	Majorana, 101/	103 50019 Sesto Fiorentino FI	
	Telephone number	055	5311861		
	Fax number 055311791				
	Competent person responsible				
_	the safety data sheet		enzo.magaldi@f		
1.4	Emergency telephone number			ine operating in England, in and in Wales (NHS Direct Wales).	
	HAZARDS IDENTIFICATION	300		and in wales (NHS Direct Wales).	
2.1	Classification of the substance	or mixture			
	Hazard classes		egory codes	Hazard statements	
	Aquatic chronic		2	H411	
2.2	Label elements				
	Pictograms				
		×			
	Signal word	n.a.			
	Hazard statements				
		H411	-	terrestrial invertebrates	
	Precautionary statements	P391	Collect spilla	ge	
		P273	Avoid releas	e to the environment.	
		P501	•	ontents/container according to	
_			national reg		
2.3	Other hazards	It does NOT contain PBT / vPvB substances according to Regulation (EC) 1907/2006, annex XIII It does NOT contain substances that interfere with the			
				lance with Regulation (EC)	
		chaochine s			

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1907/2006 art.59 paragraph 1 and in accordance with the criteria established in Regulation (EU) 2017/2100 and Regulation (EU) 2018/605.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substance:

4.

Chemical nameClorotris(trifenilfosfina)rodio(I)CAS Number14694-95-2EC Number238-744-5INDEXNot availableATENot applicableM Factor1FIRST AID MEASURESJDescription of first aid measures

#### 4.1 Description of first aid Inhalation

Ingestion	Call a doctor immediately.
Contact with skin	Wash with soap and water and rinse thoroughly.
Contact with eyes	Rinse with plenty of running water for at least 15 minutes while
	keeping the eyelids open (remove contact lenses if it is easy to do so).
	Consult an ophthalmologist.

Bring the victim in a very well ventilated area.

#### **Recommendations:**

	<ul> <li>Need to see a doctor immediate</li> </ul>	YES	
	<ul> <li>Possibility of delayed effects for</li> </ul>	NO	
	Move the exposed individual free	YES	
	<ul> <li>Remove the clothing and shoes</li> </ul>	YES	
	<ul> <li>How to handle contaminated clothing</li> </ul>		With gloves
	<ul> <li>For first aiders, wear PPE</li> </ul>		NO
4.2	Most important symptoms and e No information available	effects, both acute and delayed	
4.3	Indication of any immediate mee None in particular FIREFIGHTING MEASURES	dical attention and special treatment need	led
5.1	Extinguishing media		
	Suitable extinguishing media	Suitable extinguishing media: CO2, powd extinguishers. Extinguish large fires with alcohol-resistant foam.	
	Unsuitable extinguishing media	None	
5.2	Special hazards arising from the If involved in a fire it can develop	substance or mixture fumes of hydrochloric acid and phosphoru	ıs oxides
5.3	Advice for firefighters		

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Normal fire-fighting clothing, such as self-contained open-circuit compressed air breathing apparatus (EN137), flame retardant suit (EN469), flame retardant gloves (EN659) and firefighter boots (HOA29 or A30)

## 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Keep away from contamined area

#### 6.1.2. For emergency responders

Use :

Chemical risk gloves compliant with EN420 EN374 standards Splash goggles compliant with Directive 89/686 / EEC and standard EN166: 2001 Complete clothing compliant with the UNI EN 13034: 2006 standard. Check the spreading with absorbent material.

#### 6.2 Environmental precautions

In the event of infiltration into bodies of water or sewers or penetration into the ground, notify the competent authorities.

#### 6.3 Methods and material for containment and cleaning up

#### 6.3.1. Advice in order to contain a spill

None in particular

## 6.3.2. Advice in order to clean-up a spill

Wash the contaminated area with water. Prevent infiltration into the sewer, groundwater and surface water

- 6.3.3 Other information None
- 6.4 Reference to other sections

## None

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

7.1.1. Raccomentations in order to manipulate the substance or the mixture in a safe manner, such as containement measures and prevention of fire and aereosol and powders formation

Use under suction. Use is permitted only to trained and informed personnel.

### 7.1.2. General recommendation on work hygiene

Do not eat, drink and smoke in work areas. Wash your hands after use. Remove contaminated clothing and protective equipment before entering eating areas **Conditions for safe storage, including any incompatibilities** 

7.2.1. Risk management associated with explosive atmospheres, corrosive conditions, flammability hazards, incompatible substances or mixtures, evaporative conditions, potential ignition sources

Store in an area without drains or access to sewers and protected from humidity

- 7.2.2. Control of weather conditions, ambient pressure, temperature, sunlight, humidity, and vibration
- **7.2.3.** Conditions to maintain the integrity of the substance or mixture Keep in tightly closed containers. Avoid contact with oxygen in the air which can cause slow decomposition of the product.
- **7.2.4.** Advice regarding the ventilation, specific design for storage rooms or vessels, quantity limits under storage conditions, packaging compatibilities

7.2.



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			Store in a cool and dry warehous	e	
	7.3.		Specific end use(s)		
			Industrial use		
8.			EXPOSURE CONTROLS/PERSONAL PROTECTION		
	8.1.		Control parameters		
			•	nal and biological exposure limit values corresponding	
				values referred to in Directives 98/24 / EC and 2004/37	
			/ EC have not been established.		
	8.2.	0 7 1	Exposure controls	1-	
		8.2.1.	Appropriate engineering contro	sally check the capacity of the hoods.	
		8.2.2.	such as personal protective equipment		
		0.2.2.	Eye/face protection	Protective goggles for eyes compliant with Directive	
				89/686 / EEC and with standard EN166: 2001	
			Skin protoction (bands)		
			Skin protection (hands)	Chemical risk gloves compliant with EN420 EN374	
				standards	
			Skin protection (body)	Complete antacid clothing compliant with the UNI	
				EN 13034: 2006 type 6	
			Respiratory protection	Semi-facial masks with P2 filters	
			Thermal hazards	The substance does not present thermal hazards	
		8.2.3.	Environmental exposure control	's	
				ents using localized collection systems and ambient air	
			-	ating air suction systems. Avoid any spill into the	
-			environment.		
9.	0.1		PHYSICAL AND CHEMICAL PROP		
	9.1		Information on basic physical a		
			Physical state	Crystalline powder	
			Colour	Magenta	
			Odour	Odorless	
			Melting point/freezing point	Decomposes at 103 ° C	
			Boiling point or initial boiling poi	nt and Not applicable	
			boiling range		
			Flammability	Not inflammable	
			Lower and upper explosion limit	Not explosive	
			Flash point	Not inflammable	
			Auto-ignition temperature	Not inflammable	
			Decomposition temperature	103 ° C	
			рН	Not applicable	
			Kinematic viscosity	Not applicable	
			Solubility	insoluble	
			-		



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		Partition coefficient n-octanol/water (lo value)	pg Log Pow 5.69 at 20 ° C
		Vapour pressure	Not applicable
		Density and/or relative density	1.4 g / cm3
		Relative vapour density	Not applicable
		Particle characteristics	<100 μm: 95.9%
	9.2.	Other information	
		None	
10.		STABILITY AND REACTIVITY	
	10.1	Reactivity	
		It can be corrosive to some metals due	to the presence of chloride
	10.2	Chemical stability	aitragan atmacabara. It slawly dagampasas in
		the air.	nitrogen atmosphere. It slowly decomposes in
	10.3	Possibility of hazardous reactions	
	10.0	There are no known dangerous reaction	IS.
	10.4	Conditions to avoid	-
		None	
	10.5	Incompatible materials	
		None	
	10.6	Hazardous decomposition products	
			s of hydrochloric acid and phosphorus oxides
11.	11 1	TOXICOLOGICAL INFORMATION	din Deculation (FC) No. 1272 (2000
	11.1	Information on hazard classes as define Acute toxicity	Oral LD50> 5000 mg / kg rat
		Skin corrosion / irritation	Based on available data, the
		Skii conosion y initation	classification criteria are not met
		Corious que demose livritation	
		Serious eye damage/irritation	Based on available data, the
			classification criteria are not met
		Respiratory or skin sensitization	Based on available data, the
			classification criteria are not met
		Germ cell mutagenicity	Based on available data, the
			classification criteria are not met
		Carcinogenicity	No data available
		Reproductive toxicity	Based on available data, the
			classification criteria are not met
		STOT – single exposure	No data available
		STOT – repeated exposure	No data available
	11.2	Information on other hazards None	
12.		ECOLOGICAL INFORMATION	
	12.1	Toxicity	EC50 72h for freshwater algae: 4.38 mg / L
	12.2	Persistence and degradability	Not biodegradable



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	12.3	Bioaccumulative potential	No information is available	
	12.4	Mobility in soil	No information is available	
	12.5	Results of PBT and vPvB assessment	Not PBT nor vPvB	
	12.6	Endocrine disrupting properties	No known effects	
	12.7	Other adverse effects	No known effects	
13.		DISPOSAL CONSIDERATIONS		
	13.1.	Waste treatment methods		
		Dispose of waste according to current legis	lation.	
14.		TRANSPORT INFORMATION		
	14.1	UN number or ID number	Not subject to ADR regulation	S
	14.2	UN proper shipping name	Not applicable	
	14.3	Transport hazard class(es)	Not applicable	
	14.4	Packing group	Not applicable	
	14.5	Environmental hazards	Not applicable	
	14.6	Special precautions for user	Not applicable	
	14.7	Maritime transport in bulk according to		
		IMO instruments	Not applicable	
15.		REGULATORY INFORMATION		
	15.1	Safety, health and environmental regulati	ons/legislation specific	
		for the substance or mixture	Ар	plicability
		Reg. (EC) 1907/2006 / EC Reach		YES
		Reg. (EC) 1272/2008 CLP and subsequent of	-	YES
		Reg. (CE) 2037/2000 "Substances that dep	-	NO
		Reg. (EC) 850/2004 "Persistent organic po		NO
		Reg. (EC) 689/2008 "export and import of	-	NO
		Substance listed in Annex I of Dir. 2012/18		NO
		Legislative Decree 81/2008 Consolidated L safety at work	aw on health and	YES
		Directive 2014/103 / EU "Adr"		NO
		Reg. (CE) 1907/2006/CE Reach art. 59 – Ca	andidate List of	NO
		Substances of Very High Concern (SVHC)		
		Reg. (CE) 1907/2006/CE Reach - Annex XIV	/ – Authorisation List	NO
		Reg. (CE) 1907/2006/CE Reach - Annex XV		NO
		https://echa.europa.eu/it/substances-res	tricted-under-reach	
	15.2	Chemical safety assessment		
		A chemical safety assessment was not carr	ied out	
16.		OTHER INFORMATION		
	16.1	Changes compared to the previous edition	ı	
		Regulatory update		
	16.2	Acronim and abbreviation legend		
		ADR : Agreement concerning the Internatio		
		GHS: Globally Harmonized System of Cla	-	nicals
		EINECS: European Inventory of Existing Cor CAS: Chemical Abstract Service	nmercial Chemical Substances	
	16.3	CAS: Chemical Abstract Service Main references and data sources		
	10.3	ECHA's data bank on registered substances and soon to be registered substances:		
		http://echa.europa.eu/web/guest/informa	-	
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# 16.5 Adequate training for workers in order to ensure the protection of human health and the environment

Training on Chemical Risk pursuant to Legislative Decree 81/08 Title IX dangerous substances PPE training