

## Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: 000178  
Product name: Redy

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: insetticida liquido pronto uso

#### 1.3. Details of the supplier of the safety data sheet

Name: Activa S.r.l.  
Full address: Via Feltre, 32  
District and Country: 20132 Milano (MI)  
Tel.: 0270637301  
Fax: 0270637228

e-mail address of the competent person responsible for the Safety Data Sheet: regulatory@activa.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to:

Foggia - Az. Osp. Univ. Foggia, V.le Luigi Pinto, 1 - Tel. 800183459  
Napoli - Az. Osp. A. Cardarelli, Via A. Cardarelli, 9 - Tel. 081-5453333  
Roma - CAV Policlinico Umberto I, V.le del Policlinico, 155 - Tel. 06-49978000  
Roma - CAV Policlinico A. Gemelli, Largo Agostino Gemelli, 8 - Tel. 06-3054343  
Firenze - Az. Osp. Careggi U.O. Tossicologia Medica, Largo Brambilla, 3 - Tel. 055-7947819  
Pavia - Centro Nazionale di Informazione Tossicologica, Via Salvatore Maugeri, 10 - Tel. 0382-24444  
Milano - Osp. Niguarda Ca' Granda, Piazza Ospedale Maggiore, 3 - Tel. 02-66101029  
Bergamo - Azienda Ospedaliera Papa Giovanni XXIII, Piazza OMS, 1 - Tel. 800883300  
Roma - Ospedale pediatrico Bambino Gesù, Dipartimento emergenza e accettazione DEA, piazza Sant'Onofrio 4, - TEL. 06 68593726  
Verona - Azienda Ospedaliera Integrata, Piazzale Aristide Stefani, 1- Tel. 800011858

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

##### Hazard classification and indication:

Hazardous to the aquatic environment, acute toxicity, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, chronic toxicity, category 1	H410	Very toxic to aquatic life with long lasting effects.

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## SECTION 2. Hazards identification ... / &gt;&gt;

## 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning

Hazard statements:  
**H410** Very toxic to aquatic life with long lasting effects.

Precautionary statements:  
**P273** Avoid release to the environment.  
**P391** Collect spillage.  
**P501** Dispose of contents / container to . . .

## 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

## 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>Estratto di Chrysanthemum cinerariaefolium ottenuto da fiori aperti e maturi di Tanacetum cinerariifolium mediante solvente idrocarburico</b>		
INDEX 613-022-00-6	$0,1 \leq x < 0,15$	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100
EC 289-699-3		LD50 Oral: 1750 mg/kg, ATE Dermal: 1100 mg/kg, LC50 Inhalation mists/powders: >2,06 mg/l
CAS 89997-63-7		
<b>DELTAMETHRIN TG</b>		
INDEX	$0,0025 \leq x < 0,06$	Acute Tox. 3 H301, Acute Tox. 3 H331, Aquatic Acute 1 H400 M=1000000, Aquatic Chronic 1 H410 M=10000
EC 258-256-6		LD50 Oral: 87 mg/kg, LC50 Inhalation mists/powders: 0,6 mg/kg
CAS 52918-63-5		
<b>ALCOL 2 ETILESILICO</b>		
INDEX	$0 \leq x < 0,05$	Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335
EC 203-234-3		ATE Inhalation vapours: 11 mg/l, ATE Inhalation mists/powders: 1,5 mg/l
CAS 104-76-7		
REACH Reg. 01-2119487289-20-0030		
<b>5-Metileptan-3-one</b>		
INDEX 606-020-00-1	$0 \leq x < 0,05$	Flam. Liq. 3 H226, Eye Irrit. 2 H319, STOT SE 3 H335
EC 208-793-7		
CAS 541-85-5		
<b>ossido difenile</b>		
INDEX 606-020-00-1	$0 \leq x < 0,05$	Eye Irrit. 2 H319, Aquatic Chronic 2 H411
EC 202-981-2		
CAS 101-84-8		
REACH Reg. 01-2119472545-33-xxxx		

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## SECTION 3. Composition/information on ingredients ... / &gt;&gt;

**ACIDO OSSALICO**

INDEX 607-006-00-8  $0 \leq x < 0,05$   
 EC 205-634-3  
 CAS 144-62-7  
 REACH Reg. 01-2119534576-33

Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Dam. 1 H318  
 LD50 Oral: 375 mg/kg, ATE Dermal: 1100 mg/kg

**acetato di isopentile**

INDEX 607-130-00-2  $0 \leq x < 0,05$   
 EC 204-662-3  
 CAS 123-92-2  
 REACH Reg. 01-2119548408-32-xxxx

Flam. Liq. 3 H226, EUH066

**Diacetile**

INDEX  $0 \leq x < 0,05$   
 EC 207-069-8  
 CAS 431-03-8

Flam. Liq. 2 H225, Acute Tox. 3 H331, Acute Tox. 4 H302, STOT RE 2 H373,  
 Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317  
 ATE Oral: 500 mg/kg, ATE Inhalation vapours: 3 mg/l, ATE Inhalation  
 mists/powders: 0,501 mg/l

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures

## 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

## 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

## 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

## SECTION 5. Firefighting measures

## 5.1. Extinguishing media

## SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

## UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

Suitable extinction means: inert gases, foam, chemical powders, CO<sub>2</sub>.

Extremely means that must not be used for safety reasons: water.

## 5.2. Special hazards arising from the substance or mixture

## HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

This product is not flammable but it is dangerous for the environment, in case of fire avoiding the

Water contamination: do not let the water used to extinguish the fires in the sewer

The fire can form irritating and toxic fumes. In case of combustion it can produce toxic gases and irritating.

## 5.3. Advice for firefighters

## GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

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**SECTION 5. Firefighting measures ... / >>****SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

Remove unnecessary and unprotected personnel. Discontinue supply if possible.

If possible, move the containers to a safe place. Keep containers and area cool surrounding by spraying water on containers and surrounding areas. Fighting fire from the upper hand.

**DEVICES**

Eye and respiratory protection necessary for fire-fighters. Complete equipment and self-contained breathing apparatus (SCBA) must be used for all fires in indoor environments and for fires outdoors.

Attention, the product is dangerous for the environment: The water resulting from the fire extinguishing operations fires must be recovered and disposed of as hazardous waste.

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**6.3. Methods and material for containment and cleaning up**

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

**7.2. Conditions for safe storage, including any incompatibilities**

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

**7.3. Specific end use(s)**

Information not available

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters**

Regulatory references:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung

## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

DNK	Danmark	gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
FRA	France	Límites de exposición profesional para agentes químicos en España 2021
FIN	Suomi	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	HTP-VÄRDEN 2020. Koncentrationer som befunnsit skadliga. SOCIAL - OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25
HUN	Magyarország	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία"»
HRV	Hrvatska	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
ITA	Italia	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemičkim na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
NOR	Norge	Decreto Legislativo 9 Aprile 2008, n.81
PRT	Portugal	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
POL	Polska	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
ROU	România	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
SWE	Sverige	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SVK	Slovensko	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVN	Slovenija	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénym faktorom pri práci v znení neskorších predpisov
TUR	Türkiye	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	Kimyasal Maddelerde Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
EU	OEL EU	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	TLV-ACGIH	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
		ACGIH 2022

## GLICOLE PROPYLENICO

## Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
TLV	NOR	79	25			total vapour and particulates
NDS/NDSCh	POL	100				Particulates
WEL	GBR	474	150			total vapour and particulates

## Predicted no-effect concentration - PNEC

Normal value in fresh water	260	mg/l
Normal value in marine water	26	mg/l
Normal value for fresh water sediment	572	mg/kg
Normal value for marine water sediment	57,2	mg/kg
Normal value for water, intermittent release	183	mg/l
Normal value of STP microorganisms	20000	mg/l
Normal value for the terrestrial compartment	50	mg/kg

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation			10	50			10	168
			mg/m3	mg/m3			mg/m3	mg/m3

**SECTION 8. Exposure controls/personal protection ... / >>**

**Estratto di Chrysanthemum cinerariaefolium ottenuto da fiori aperti e maturi di Tanacetum cinerariifolium mediante solvente idrocarburico**

**Threshold Limit Value**

Type	Country	TWA/8h	ppm	STEL/15min	ppm	Remarks / Observations
		mg/m3		mg/m3		
OEL	EU	1				

**DELTAMETHRIN TG**

**Threshold Limit Value**

Type	Country	TWA/8h	ppm	STEL/15min	ppm	Remarks / Observations
		mg/m3		mg/m3		
WEL	GBR			0,02		

**2,6-Di-terz-butil-p-cresolo**

**Threshold Limit Value**

Type	Country	TWA/8h	ppm	STEL/15min	ppm	Remarks / Observations
		mg/m3		mg/m3		
MAK	DEU	10		40		15 minutes average value
TLV	DNK	10		20		
VLA	ESP	10				
VLEP	FRA	10				
HTP	FIN	10		20		15 minutes average value
WEL	GBR	10				

**BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., CALCIUM SALTS**

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,023	mg/l
Normal value in marine water	0,0023	mg/l
Normal value for fresh water sediment	0,174	mg/kg
Normal value for marine water sediment	0,0174	mg/kg
Normal value for water, intermittent release	0,01	mg/l
Normal value of STP microorganisms	3	mg/l
Normal value for the terrestrial compartment	0,62	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		89						
		mg/kg bw/d						
Skin				85				1,7
				mg/kg bw/d				mg/kg bw/d

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## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

## ALCOL 2 ETILESILICO

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	54	10	54	10	INHAL 15 minutes average value
TLV	DNK	5,4	1	10,8	2	15 minutes average value
VLA	ESP	5,4	1	110	20	15 minutes average value
VLEP	FRA	5,4	1			
HTP	FIN	5,4	1			
AK	HUN	5,4				
VLEP	ITA	5,4	1			
TLV	NOR	5,4	1	54	10	15 minutes average value
NDS/NDSch	POL	5,4		10,8		
TLV	ROU	5,4	1			
NGV/KGV	SWE	5,4	1			
WEL	GBR	5,4				
OEL	EU	5,4	1			

## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,017	mg/l
Normal value in marine water	0,0017	mg/l
Normal value for fresh water sediment	0,28	mg/kg
Normal value for marine water sediment	0,028	mg/kg
Normal value for water, intermittent release	0,17	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	55	mg/kg
Normal value for the terrestrial compartment	0,047	mg/kg

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral								
Inhalation	26,6 mg/m3	53,2	26,6 mg/m3	2,3 mg/m3	53,2 mg/m3		53,2 mg/m3	12,8 mg/m3
Skin	53,2			11,4 mg/kg/d				23 mg/kg/d

## Denatonio Benzoato (Bitrex Anhydrous)

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		0,1				in house exposure limit

## (-)-Pin-2(3)-ene

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	NOR	140	25			SKIN
NGV/KGV	SWE	150	25	300	50	

## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

## SODIUM HYDROXIDE

## Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
TLV	BGR	2				
TLV	CZE	1		2		
TLV	DNK			2 (C)		
VLA	ESP			2		
VLEP	FRA	2				
HTP	FIN			2 (C)		
TLV	GRC	2		2		
AK	HUN	1		2		
GVI/KGVI	HRV			2		
TLV	NOR	2				
NDS/NDSCh	POL	0,5		1		
NGV/KGV	SWE	1		2		INHAL
NPEL	SVK	2				
MV	SVN	2		2		INHAL
WEL	GBR			2		
TLV-ACGIH				2 (C)		
TLV-ACGIH				2		SKIN URT, eye, and skin irr

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			1 mg/m3				1 mg/m3	

## (-)-Pin-2(10)-ene

## Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
TLV-ACGIH			20			DSEN, A4 - Lung irr

## 3-carene

## Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
TLV-ACGIH			20			DSEN, A4 - Lung irr

## 2-Metilisotiazol-3(2H)-one

## Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
AGW	DEU	0,2		0,4		INHAL

## 5-Metileptan-3-one

## Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
OEL	EU	53	10	107	20	Neurotoxicity
TLV-ACGIH			10			

## ossido difenile

## Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
OEL	EU	7	1	14	2	
TLV-ACGIH			1		2	Note: (V)URT eye irr, nausea



## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

## ACIDO OSSALICO

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	1				
TLV	CZE	1		5		
AGW	DEU	1		1		INHAL
AGW	DEU	1		1		SKIN
TLV	DNK	1				E
VLA	ESP	1				
VLEP	FRA	1				
HTP	FIN	1		3		SKIN
TLV	GRC	1				
AK	HUN	1				
GVI/KGVI	HRV	1				
VLEP	ITA	1				
TLV	NOR	1				
VLE	PRT	1				
NDS/NDSch	POL	1		2		
TLV	ROU	1				
NGV/KGV	SWE	1		2 (C)		
NPEL	SVK	1				
MV	SVN	1				
ESD	TUR	1				
WEL	GBR	1		2		
OEL	EU	1				
TLV-ACGIH		1		2		

## acetato di isopentile

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	270	50	540	100	URT irr
TLV-ACGIH			50			

## Diacetile

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	0,07	0,02	0,36	0,1	

## Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard

; MED = medium hazard ; HIGH = high hazard.

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

## HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

## SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

## EYE PROTECTION

Wear airtight protective goggles (see standard EN ISO 16321).

## RESPIRATORY PROTECTION

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing

**SECTION 8. Exposure controls/personal protection ... / >>**

apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	liquid	
Colour	beige	
Odour	characteristic	
Melting point / freezing point	-0,1 °C	Method:Oecd n ° 102 Remark:EC A.1; Cipac MT1 Concentration: 100 %
Initial boiling point	63,9 °C	Method:EC Method A.2 Remark:Oecd n ° 103 Concentration: 100 %
Flammability	not flammable	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 60 °C	Method:EC Method A.2 Remark:Cipac MT12,3 Concentration: 100 %
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	8,5	Method:Cipac MT75 Concentration: 100 % Temperature: 20 °C
Kinematic viscosity	2,24 cSt	Method:Oecd 114 Remark:Calculation from Dynamic Temperature: 40 °C
Dynamic viscosity	3,04 cP	Method:Oecd 114 Remark:Speed 20-100rpm Splink SC4-18 Temperature: 20 °C
Solubility	soluble in water	
Dissolution rate	not available	Reason for missing data:The mixture is a liquid
Partition coefficient: n-octanol/water	not available	
Dispersion stability	not available	Reason for missing data:The mixture is a suso emulsion
Vapour pressure	not available	
Density and/or relative density	1 g/ml	Method:Densimeter Temperature: 20 °C
Relative vapour density	not available	
Particle characteristics	not applicable	

**9.2. Other information****9.2.1. Information with regard to physical hazard classes****Explosives**

Explosives

Remark:Substances do not contain functional groups with explosive characteristics

**9.2.2. Other safety characteristics**

Explosive properties

not explosive

Oxidising properties

not oxidizing

**SECTION 10. Stability and reactivity****10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

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**SECTION 10. Stability and reactivity** ... / >>

## ACIDO OSSALICO

Decomposes at temperatures above 157°C/315°F.

Le soluzioni acquose sature (15%) si comportano da acidi medioforti.

**10.2. Chemical stability**

The product is stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

No hazardous reactions are foreseeable in normal conditions of use and storage.

## ACIDO OSSALICO

May form explosive mixtures with: oxidising substances. Reacts violently developing heat on contact with: alkaline metals, ammonia, mercury, furfuryl alcohol, chlorates, hypochlorites. Risk of explosion on contact with: sodium chlorite, silver.

**10.4. Conditions to avoid**

None in particular. However the usual precautions used for chemical products should be respected.

## DELTAMETHRIN TG

Avoid exposure to: heat.

**10.5. Incompatible materials**

## ACIDO OSSALICO

Incompatible with: strong oxidants, metals, alkaline metals, furfurylic acid, chlorine compounds.

**10.6. Hazardous decomposition products**

## DELTAMETHRIN TG

In decomposition develops: carbon monoxide.

## ACIDO OSSALICO

May develop: carbon oxides.

**SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

Estratto di Chrysanthemum cinerariaefolium ottenuto da fiori aperti e maturi di Tanacetum cinerariifolium mediante solvente idrocarburico

LD50 (Dermal):

> 5000 mg/kg

ATE (Dermal):

1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP  
(figure used for calculation of the acute toxicity estimate of the mixture)

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**SECTION 11. Toxicological information ... / >>**

LD50 (Oral):	1750 mg/kg
LC50 (Inhalation mists/powders):	> 2,06 mg/l
<b>DELTAMETHRIN TG</b>	
LD50 (Dermal):	> 2000 mg/kg ratto
LD50 (Oral):	87 mg/kg topo
LC50 (Inhalation mists/powders):	0,6 mg/l/4h Ratto
<b>ALCOL 2 ETILESILICO</b>	
LD50 (Dermal):	> 3000 mg/kg
LD50 (Oral):	3290 mg/kg Rat
LC50 (Inhalation mists/powders):	< 5,3 mg/l
LC50 (Inhalation vapours):	> 0,89 mg/l/4h Rat
<b>5-Metileptan-3-one</b>	
LD50 (Dermal):	> 16000 mg/kg
LD50 (Oral):	3500 mg/kg
LC50 (Inhalation mists/powders):	16 mg/l/4h
<b>ACIDO OSSALICO</b>	
LD50 (Oral):	375 mg/kg Rat

**SKIN CORROSION / IRRITATION**

Does not meet the classification criteria for this hazard class

**SERIOUS EYE DAMAGE / IRRITATION**

Does not meet the classification criteria for this hazard class

**RESPIRATORY OR SKIN SENSITISATION**

Does not meet the classification criteria for this hazard class

**GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

**CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

**REPRODUCTIVE TOXICITY**

Does not meet the classification criteria for this hazard class

**STOT - SINGLE EXPOSURE**

Does not meet the classification criteria for this hazard class

**STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class

**ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**SECTION 12. Ecological information**

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it has negative effects on the aquatic environment.

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## SECTION 12. Ecological information ... / &gt;&gt;

## 12.1. Toxicity

5-Metileptan-3-one LC50 - for Fish	80 mg/l/96h
acetato di isopentile EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	42 mg/l/48h 450 mg/l/72h
ossido difenile LC50 - for Fish	10 mg/l/24h 24h
DELTAMETHRIN TG LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea	0,00026 mg/l/96h 3E-07 mg/l/48h valore a 96h > 0,47 mg/l/72h 1,7E-05 mg/l 260 giorni 4,1E-06 mg/l 21 giorni
Estratto di Chrysanthemum cinerariaefolium ottenuto da fiori aperti e maturi di Tanacetum cinerariifolium mediante solvente idrocarburico LC50 - for Fish	0,0052 mg/l/96h
ALCOL 2 ETILESILICO LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	28,2 mg/l/96h 39 mg/l/48h 11,5 mg/l/72h

## 12.2. Persistence and degradability

DELTAMETHRIN TG NOT rapidly degradable	
Estratto di Chrysanthemum cinerariaefolium ottenuto da fiori aperti e maturi di Tanacetum cinerariifolium mediante solvente idrocarburico NOT rapidly degradable	
ACIDO OSSALICO Solubility in water Rapidly degradable	> 10000 mg/l
ALCOL 2 ETILESILICO Rapidly degradable	

## 12.3. Bioaccumulative potential

DELTAMETHRIN TG BCF	1400 Lepomis macrochirus
ACIDO OSSALICO Partition coefficient: n-octanol/water	-1,7
ALCOL 2 ETILESILICO BCF	25,33

## 12.4. Mobility in soil

Information not available

## 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

## 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine

## SECTION 12. Ecological information ... / >>

disruptors with environmental effects under evaluation.

### 12.7. Other adverse effects

Information not available

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## SECTION 14. Transport information

### 14.1. UN number or ID number

ADR / RID, IMDG, IATA: 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

### 14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Estratto di Chrysanthemum cinerariaefolium ottenuto da fiori aperti e maturi di Tanacetum cinerariifolium mediante solvente idrocarburico; DELTAMETHRIN TG)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Estratto di Chrysanthemum cinerariaefolium ottenuto da fiori aperti e maturi di Tanacetum cinerariifolium mediante solvente idrocarburico; DELTAMETHRIN TG)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Estratto di Chrysanthemum cinerariaefolium ottenuto da fiori aperti e maturi di Tanacetum cinerariifolium mediante solvente idrocarburico; DELTAMETHRIN TG)

### 14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9



IMDG: Class: 9 Label: 9



IATA: Class: 9 Label: 9



### 14.4. Packing group

ADR / RID, IMDG, IATA: III

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**SECTION 14. Transport information** ... / >>**14.5. Environmental hazards**

ADR / RID: Environmentally Hazardous



IMDG: Marine Pollutant



IATA: Environmentally Hazardous

**14.6. Special precautions for user**

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 L	Tunnel restriction code: (-)
	Special provision: -		
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Passengers:	Maximum quantity: 450 L	Packaging instructions: 964
	Special provision:	A97, A158, A197, A215	

**14.7. Maritime transport in bulk according to IMO instruments**

Information not relevant

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**Seveso Category - Directive 2012/18/EU: E1Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006Product

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors  
not applicableSubstances in Candidate List (Art. 59 REACH)On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

**15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

**SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Flam. Liq. 2</b>	Flammable liquid, category 2
<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>STOT RE 2</b>	Specific target organ toxicity - repeated exposure, category 2
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>H225</b>	Highly flammable liquid and vapour.
<b>H226</b>	Flammable liquid and vapour.
<b>H301</b>	Toxic if swallowed.
<b>H331</b>	Toxic if inhaled.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H332</b>	Harmful if inhaled.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>EUH066</b>	Repeated exposure may cause skin dryness or cracking.

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).



**SECTION 16. Other information ... / >>**

## GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
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- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

## Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

## CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

02 / 03 / 08 / 09 / 10 / 11 / 12 / 15 / 16.