

# Safety Data Sheet

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 2025-01-16 **Revision Number** 15

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

#### 1.1. Product identifier

**Product Code** 635507

**Product Name** TALON Superflow Metal Affinity Resin

Pure substance/mixture

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

Identified uses For research use only. Not for use in diagnostic procedures

No information available Uses advised against

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

#### **Supplier**

USA:

Takara Bio USA, Inc. 2560 Orchard Parkway San Jose, CA 95131, USA Phone: 800.662.2566/888.251.6618

Web: www.takarabio.com

Europe:

Takara Bio Europe S.A.S. 34. Rue de la Croix de Fer 78100 Saint-Germain-en-Laye, France

Phone: +33.1.39.04.68.80 Web: www.takarabio.com

Europe:

Takara Bio Europe AB Arvid Wallgrens Backe 20, SE-413 46 Göteborg, Sweden Phone: +46.31.758.09.00

Web: www.takarabio.com

India:

DSS Takara Bio India Pvt. Ltd. A-5 Mohan Co-operative Industrial Estate, Mathura Road,

New Delhi 110044, India

Phone: +91.1800.212.4922 (Toll free)

Web: www.takarabio.com

For further information, please contact:

### 1.4. Emergency telephone number

Emergency telephone In case of emergency, call PERS (Professional Emergency Resource Services)

1-800-633-8253 (US) or 801-629-0667 (international).

Marco Marano Italy

CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA Roma, Piazza Sant'Onofrio,4 00165
0668593726

## **SECTION 2: Hazards identification**

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

Classification according to

Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment - chronic

Category 3 - (H412)

#### 2.2. Label elements

#### **Hazard statements**

H412 - Harmful to aquatic life with long lasting effects

## Precautionary Statements - EU (§28, 1272/2008)

P273 - Avoid release to the environment

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

#### 2.3. Other hazards

Harmful to aquatic life.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	Weight-%	REACH registration	EC No (EU	Classification according	Specific	M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		
Ethanol	10 - 20	No data available	200-578-6	Flam. Liq. 2 (H225)	-	-	-
64-17-5			(603-002-00-5)				
Cobalt	< 0.1	No data available	231-158-0	Skin Sens. 1 (H317)	-	-	-
7440-48-4			(027-001-00-9)	Resp. Sens. 1 (H334)			
				Muta. 2 (H341)			
				Carc. 1B (H350)			
				Repr. 1B (H360F)			
				Aquatic Chronic 4			
				(H413)			

## Full text of H- and EUH-phrases: see section 16

## **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapor - mg/L	hour - gas - ppm
Ethanol	7060	No data available	116.9	No data available	No data available
64-17-5			133.8		

Revision	Date	2025-01-16

Chemical name Oral	al LD50 mg/kg	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapor - mg/L	hour - gas - ppm
Cobalt 7440-48-4	6171	No data available	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact**Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

**Ingestion** Rinse mouth.

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

**Symptoms** No information available.

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

Note to physicians Treat symptomatically.

## **SECTION 5: Firefighting measures**

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media**Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

## **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Ethanol	=	TWA: 1000 ppm	TWA: 1000 ppm	TWA: 1000 mg/m <sup>3</sup>	TWA: 1000 ppm
64-17-5		TWA: 1900 mg/m <sup>3</sup>	TWA: 1907 mg/m <sup>3</sup>		TWA: 1900 mg/m <sup>3</sup>
		STEL 2000 ppm			
		STEL 3800 mg/m <sup>3</sup>			
Cobalt	-	Sk*	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
7440-48-4		Sa+			Skin Sensitisation
		Sh+			Respiratory
					Sensitisation
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ethanol	-	TWA: 1000 mg/m <sup>3</sup>	TWA: 1000 ppm	TWA: 500 ppm	TWA: 1000 ppm
64-17-5		Ceiling: 3000 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup>
			STEL: 2000 ppm	STEL: 1000 ppm	STEL: 1300 ppm
			STEL: 3800 mg/m <sup>3</sup>	STEL: 1900 mg/m <sup>3</sup>	STEL: 2500 mg/m <sup>3</sup>
Cobalt	=	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>
7440-48-4		S+	STEL: 0.02 mg/m <sup>3</sup>	S+	

			Ceiling: 0.1 mg/m <sup>3</sup>				
Chemical name		France	Germany TRGS	Germany DFG	Gı	reece	Hungary
Ethanol	TWA	: 1000 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA:	1000 ppm	TWA: 1000 ppm
64-17-5	TWA:	1900 mg/m <sup>3</sup>	TWA: 380 mg/m <sup>3</sup>	TWA: 380 mg/m <sup>3</sup>	TWA: 1	900 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup>
		_: 5000 ppm		Peak: 800 ppm			STEL: 2000 ppm
	STEL:	: 9500 mg/m <sup>3</sup>		Peak: 1520 mg/m <sup>3</sup>			STEL: 3800 mg/m <sup>3</sup>
Cobalt		-	-	Sk*	TWA: (	0.1 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>
7440-48-4				respiratory and skin			SZ+
				sensitizer			
Chemical name		Ireland	Italy MDLPS	Italy AIDII		atvia	Lithuania
Ethanol	STEL	_: 1000 ppm	-	STEL: 1000 ppm	TWA: 1	000 mg/m <sup>3</sup>	TWA: 500 ppm
64-17-5				STEL: 1884 mg/m <sup>3</sup>			TWA: 1000 mg/m <sup>3</sup>
							STEL: 1000 ppm
							STEL: 1900 mg/m <sup>3</sup>
Cobalt		: 0.02 mg/m <sup>3</sup>	-	TWA: 0.02 mg/m <sup>3</sup>	TWA: (	0.5 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>
7440-48-4		: 0.06 mg/m <sup>3</sup>		senR+			J+
		Sens+		senD+			
Chemical name	Lu	xembourg	Malta	Netherlands		orway	Poland
Ethanol		-	-	TWA: 137 ppm		500 ppm	TWA: 1900 mg/m <sup>3</sup>
64-17-5				TWA: 260 mg/m <sup>3</sup>		950 mg/m <sup>3</sup>	
				STEL: 1000 ppm		625 ppm	
					STEL: 11	87.5 mg/m <sup>3</sup>	
				Sk*			
Cobalt		-	-	TWA: 0.02 mg/m <sup>3</sup>		.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>
7440-48-4						0.06 mg/m <sup>3</sup>	
	_			21 11		<u>A+</u>	
Chemical name		Portugal	Romania	Slovakia		venia	Spain
Ethanol	STEL	_: 1000 ppm	TWA: 1000 ppm	TWA: 500 ppm		960 mg/m <sup>3</sup>	STEL: 1000 ppm
64-17-5			TWA: 1900 mg/m <sup>3</sup>	TWA: 960 mg/m <sup>3</sup>		500 ppm	STEL: 1910 mg/m <sup>3</sup>
			STEL: 5000 ppm	Ceiling: 1920 mg/m <sup>3</sup>		1000 ppm	
	T) 4 ( 4	0.00 / 0	STEL: 9500 mg/m <sup>3</sup>	T14/4 0 05 / 0	STEL: 1	920 mg/m <sup>3</sup>	TIA/A 0.00 / 0
Cobalt	I WA:	: 0.02 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>		-	TWA: 0.02 mg/m <sup>3</sup>
7440-48-4	L		STEL: 0.1 mg/m <sup>3</sup>	S+			Sen+
Chemical name			weden	Switzerland			ted Kingdom
Ethanol			500 ppm	TWA: 500 ppm			A: 1000 ppm
64-17-5			000 mg/m <sup>3</sup>	TWA: 960 mg/m			1920 mg/m <sup>3</sup>
			KGV: 1000 ppm	STEL: 1000 ppm			EL: 3000 ppm
			(GV: 1900 mg/m <sup>3</sup>	STEL: 1920 mg/l			_: 5760 mg/m³
Cobalt			0.02 mg/m <sup>3</sup>	TWA: 0.05 mg/n	<b>ท</b> ง		A: 0.1 mg/m <sup>3</sup>
7440-48-4			Sk*	Sk*		l SIE	L: 0.3 mg/m <sup>3</sup>
			S+	S+			Sen+

## **Biological occupational exposure limits**

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Cobalt	-	10 μg/L - urine	-	-	-
7440-48-4		(spontaneous urine)			
		- after end of work			
		day, at the end of a			
		work week/end of			
		the shift			
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
Cobalt	-	130 nmol/L (urine -	- blood (Cobalt) -	35 μg/L - BLW (for	-
7440-48-4		Cobalt after the work	end of shift at end of	long-term	
		phase or shift after a	workweek	exposures: at the	
		working week or	0.005 mg/g	end of the shift after	
		exposure period)	creatinine - urine	several shifts) urine	
			(Cobalt) - end of shift	1.5 µg/L - BAR (for	
			at end of workweek	long-term	

			<u> </u>	
			exposures: at	the
			end of the shift	
			several shifts) ı	
			6 μg/L - (long-	
			exposure: at the	
			of the shift af	
			several shifts) -	
			15 µg/L - (long	
			exposure: at the	e end
			of the shift af	ter
			several shifts) -	urine
			30 μg/L - (long	
			exposure: at the	
			of the shift af	
			several shifts) -	
			60 μg/L - (long	
			exposure: at the	
			of the shift af	
			several shifts) -	
		1	300 μg/L -	
		1	(long-term expo	sure:
			at the end of the	shift
			after several sh	ifts) -
			urine	<b>'</b>
			3 μg/L - (long-	term
			exposure: at the	l I
			of the shift af	
			several shifts) -	
			6 μg/L - (end	
			shift) - urine	
			15 µg/L - (en	
			shift) - urine	
			30 μg/L - (en	d of
			shift) - urine	e
			60 μg/L - (en	
			shift) - urine	
			300 μg/L - (er	
			shift) - urine	
			3 μg/L - (end	
			shift) - urine	
Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII
Cobalt	0.01 mg/g Creatinine	15 μg/L (urine - Cobalt	-	15 μg/L - urine (Cobalt) -
7440-48-4	(urine - Cobalt end of	end of shift at end of		end of shift at end of
	shift)	workweek)		workweek
	0.019 µmol/mmol	1 μg/L (blood - Cobalt end		
	Creatinine (urine - Cobalt	of shift at end of		
	end of shift)	workweek)		
Chemical name	Latvia	Luxembourg	Romania	Slovakia
Cobalt	7 μg/L - blood (Cobalt) -			30 μg/L (urine - Cobalt not
7440-48-4	at the end of exposure or		end of work week	critical)
7 440-40-4	· · · · · · · · · · · · · · · · · · ·			Gillical)
	shift		1 μg/L - blood (Cobalt) -	
	130 nmol/L - urine		end of work week	
	(Cobalt) - at the end of			
	exposure or shift	_		
Chemical name	Slovenia	Spain	Switzerland	United Kingdom
Cobalt	-	15 μg/L (urine - Cobalt	30 μg/L (urine - Cobalt	-
7440-48-4		end of workweek)	end of shift)	
			509 nmol/L (urine - Cobalt	
		of workweek)	end of shift)	

Derived No Effect Level (DNEL) No information available. Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

**Personal Protective Equipment** 

Eye/face protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No information available.

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Paste / Gel Liquid Physical state **Appearance** Pink slurry

Color

No information available

Odor Alcohol

**Odor Threshold** No information available

**Property** Values Remarks • Method

No data available Melting point / freezing point None known Boiling point/boiling range (°C) No data available None known Flammability (solid, gas) No data available None known

Flammability Limit in Air None known

**Upper flammability limit:** No data available Lower flammability limit: No data available

Flash point No data available Open cup **Autoignition temperature** No data available None known

**Decomposition temperature** None known No data available None known

pH (as aqueous solution) No data available No information available

Kinematic viscosity No data available None known No data available None known **Dynamic Viscosity** No data available Water solubility None known No data available Solubility in other solvents None known **Partition coefficient** No data available None known Vapor pressure No data available None known No data available Relative density None known

No data available **Bulk Density Liquid Density** No data available

Vapor density No data available None known

**Particle characteristics** 

**Particle Size** No information available **Particle Size Distribution** No information available

## 9.2. Other information

9.2.1. Information with regard to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

**SECTION 10: Stability and reactivity** 

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion Data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous Decomposition Products None known based on information supplied.

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Numerical measures of toxicity

**Acute toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal) 99,999.00 mg/kg ATEmix (inhalation-dust/mist) 573.50 mg/l

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol	= 7060 mg/kg (Rat)	-	= 116.9 mg/L (Rat) 4 h
			= 133.8 mg/L (Rat) 4 h
Cobalt	= 6171 mg/kg (Rat)	-	< 0.05 mg/L (Rat) 4 h

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

**Skin corrosion/irritation**No information available.

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	European Union		
Cobalt	Muta. 2		

**Carcinogenicity** No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union	
Cobalt	Carc. 1B	

Reproductive toxicity No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Cobalt	Repr. 1B

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

## **SECTION 12: Ecological information**

12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity**Contains 0.941 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethanol	-	LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 13400 - 15100mg/L (96h, Pimephales promelas)	-	LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna)
Cobalt	-	LC50: >100mg/L (96h, Brachydanio rerio)	-	-

#### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient
Ethanol	-0.35

### 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
Ethanol	The substance is not PBT / vPvB
Cobalt	The substance is not PBT / vPvB PBT assessment does
	not apply

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

## 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with

**products** environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## **SECTION 14: Transport information**

IATA

14.1 UN number or ID number Not regulated

**14.2 UN proper shipping name** No information available

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

<u>IMDG</u>

14.1 UN number or ID number Not regulated

**14.2 UN proper shipping name** No information available

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

**14.7** Maritime transport in bulk No information available according to IMO instruments

RID

14.1 UN number or ID number Not regulated

**14.2 UN proper shipping name** No information available

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

ADR

14.1 UN number or ID number Not regulated

**14.2 UN proper shipping name** No information available

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

## **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

#### **France**

Occupational Illnesses (R-463-3, France)

	Chemical name	French RG number	Title
	Ethanol	RG 84	-
	64-17 <b>-</b> 5		
	Cobalt	RG 65,RG 70,RG	-
	7440-48-4	70bis,RG 70ter	

## Germany

## TA Luft (German Air Pollution Control Regulation)

#### **Netherlands**

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
Ethanol	Present	_	Fertility Category 1A Development Category 1A Can be harmful via breastfeeding
Cobalt	Present	-	Fertility Category 1B

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorization per
	Annex XVII	REACH Annex XIV
Cobalt - 7440-48-4	30	-
	28	
	75	

#### **Persistent Organic Pollutants**

Not applicable

## Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable

Biocidal Products Regulation (EU) No 528/2012 (BPR)

biocidal Froducts Regulation (LO) NO 320/2012 (BFR)			
Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)		
Ethanol - 64-17-5	Product-type 1: Human hygiene Product-type 2:		
	Disinfectants and algaecides not intended for direct		
	application to humans or animals Product-type 4: Food and		
	feed area		

#### **International Inventories**

TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECI PICCS AICS -

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

Chemical Safety Assessment No information available

## **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

### Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H225 - Highly flammable liquid and vapor

H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H341 - Suspected of causing genetic defects

H350 - May cause cancer

H360F - May damage fertility

H413 - May cause long lasting harmful effects to aquatic life

#### Legend

SVHC: Substances of Very High Concern for Authorization:

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA Time weighted average STEL Short term exposure limit Ceiling Maximum limit value \* Skin designation \* Sensitizers

Classification procedure			
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used		
Acute oral toxicity	Calculation method		
Acute dermal toxicity	Calculation method		
Acute inhalation toxicity - gas	Calculation method		
Acute inhalation toxicity - vapor	Calculation method		
Acute inhalation toxicity - dust/mist	Calculation method		
Skin corrosion/irritation	Calculation method		
Serious eye damage/eye irritation	Calculation method		
Respiratory sensitization	Calculation method		
Skin sensitization	Calculation method		
Mutagenicity	Calculation method		
Carcinogenicity	Calculation method		
Reproductive toxicity	Calculation method		
STOT - single exposure	Calculation method		
STOT - repeated exposure	Calculation method		
Acute aquatic toxicity	Calculation method		
Chronic aquatic toxicity	Calculation method		
Aspiration hazard	Calculation method		
Ozone	Calculation method		

## Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

**Environmental Protection Agency** 

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision Date

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### This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### **Disclaimer**

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**End of Safety Data Sheet**