

37450.00.00 - TERNALLOY 45

Revision nr.3 Dated 18/03/2024 Printed on 30/05/2024 Page n. 1 / 11

Replaced revision:2 (Dated 30/11/2021)

## **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: 37450.00.00
Product name TERNALLOY 45
Chemical name and synonym ISO 17672:2016-Ag 145

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

Intended use Silver brazing alloys

Identified Uses

Brazing technology

SU: 14, 15, 17.

ERC: 4.

PROC: 25.

AC: 7.

PC: 38, 7.

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

Name SALDFLUX SRL SOCIETA A SOCIO UNICO

Full address VIA PRIVATA FRIULI 5
District and Country 20072 FIZZONASCO (MI)

ITALIA

Tel. +39 (02) 90781812 Fax +39 (02) 90420217

e-mail address of the competent person

responsible for the Safety Data Sheet ufficio tecnico@saldflux.com

### 1.4. Emergency telephone number

For urgent inquiries refer to

Austria
Belgio

Poison Information Center (AT): +43-(0)1-406 43 43

Poison Information Center (BE): +32 70 245 245

Croazia Poison Control (CR): +385 1 2348 342

Repubblica Ceca Poison Control (CS): +420 224 919 293, +420 224 915 402

Danimarca Poison Information Center (DK): +45 82 12 12 12 Estonia Poison Control (ET): 16662, (+372) 626 93 90 Finlandia Poison Information Center (FI): +358 9 471 977

Francia ORFILA (FR): + 01 45 42 59 59

Germania Poison Information Center Berlino (DE): +49 030 30686 790

(assistenza 24 ore su 24, Englidh/Deutch)

Grecia Poison Information Center (EL): (0030) 2107793777
Ungheria Poison Information Service (HU): (+ 36-80) 201-199

Islanda Poison Information Center: 543 2222

Lettonia Poison Information Center (LV): +371 67042473

Lituania Poison Information Office (LT): +370 5236 20 52 or +370 687 53 378

Lussemburgo Belgian Poison Center: (+352) 8002-5500

Paesi Bassi National Poisons Information Center (NVIC): 030-274 8888

Norvegia Poison Center: 22 59 13 00

Portogallo Centro Informação AntiVenenos (CIAV): 800 250 250 Spagna Poison Information Center(ES): +34 91 562 04 20

Svezia 112 – ask for Poisons Information

### **SECTION 2. Hazards identification**

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

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

Hazard classification and indication:



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#### SECTION 2. Hazards identification .../>>

#### 2.2. Label elements

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

Hazard pictograms: --

Signal words: --

Hazard statements:

**EUH210** Safety data sheet available on request.

Precautionary statements: --

#### 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 ≥ 0.1%.

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

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

Silver in grain

INDEX  $45 \le x < 46$ 

EC 231-131-3 CAS 7440-22-4

CAS 7440-22-4

INDEX  $26 \le x < 29$ 

EC 231-159-6

CAS 7440-50-8

ZINC

INDEX 030-001-01-9 24 ≤ x < 26 **EUH401** 

EC 231-175-3 CAS 7440-66-6

TIN

INDEX  $1,5 \le x < 3$ 

EC 231-141-8 CAS 7440-31-5

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

Not specifically necessary. Observance of good industrial hygiene is recommended.

## 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

Choose the most appropriate extinguishing equipment for the specific case.



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## SECTION 5. Firefighting measures .../>>

UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE The product is neither flammable nor combustible.

## 5.3. Advice for firefighters

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).

#### SECTION 6. Accidental release measures

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

Use breathing equipment if fumes or powders are released into the air. 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

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. 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.

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

Keep the product in clearly labelled containers. 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:

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 gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
NOR	Norge	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
GBR	United Kingdom TLV-ACGIH	EH40/2005 Workplace exposure limits (Fourth Edition 2020) ACGIH 2022



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<b>SECTION 8.</b>	Exposure	controls/personal	protection	/ >>

					TINI				
					TIN				
Threshold Limit Value									
Type Co	ountry TV	VA/8h		STEL/15min		Remarks / Observations			
	mg	g/m3	ppm	mg/m3	ppm				
TLV-ACGIH	2	2							
Health - Derived no-effect level - DNEL / DMEL									
	Effects or	Effects on consumers					Effects on workers		
Route of exposure	Acute	Acu	te	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	sys	temic	local	systemic		systemic	local	systemic
Oral		•			•		-	80	80
								mg/kg/d	mg/kg/d
Inhalation								3.476	3.476
								mg/m3	mg/m3
Skin				80	80			-	-
				mg/kg/d	mg/kg/d				

Silver in grain									
Threshold Limi	it Value								
Type	Country	TWA/8h		STEL/15	STEL/15min		bservations		
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH		0,1							
Predicted no-e	ffect concenti	ation - PNE	C						
Normal value	e in fresh wate	ſ					0,04	mg/l	
Normal value	e in marine wa	ter					0,86	mg/l	
Normal value	e for the terres	trial compartr	nent				0,794	mg/kg/d	
Health - Derive	ed no-effect lev	el - DNEL /	DMEL						
	Eff	ects on consi	umers			Effects on wor	kers		
Route of exp	osure Ac	ute Ac	ute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loc	al sys	stemic	local	systemic		systemic	local	systemic
Inhalation								0,04 mg/m3	·

					ZINC				
Threshold Limit Value	ue								
Type	Country	TWA/8h		STEL/15	min	Remarks / Ob	servations		
		mg/m3	ppm	mg/m3	ppm				
MAK	DEU	2		4		INHAL			
MAK	DEU	0,1		0,4		RESP			
Predicted no-effect	concentra	ation - PNEC	3						
Normal value in fr	esh water						20,6	mg/l	
Normal value in marine water 6,1 mg/l									
Normal value for fresh water sediment 117,8 mg/kg									
Normal value for r	marine wat	ter sediment					56,5	mg/kg	
Health - Derived no-	effect lev	el - DNEL / I	DMEL						
	Effe	cts on consu	ımers			Effects on work	ers		
Route of exposure	e Acu	te Acı	ute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca	ıl sys	temic	local	systemic		systemic	local	systemic
Oral				0,83	VND				
				mg/kg/d					
Inhalation				2.5	VND			2,5	VND
				mg/m3				mg/m3	
Skin				83	VND			83	VND
				mg/kg/d				mg/kg/d	



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mg/kg/d

mg/kg/d

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

COPPER									
Threshold Limit Value									
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	1		2		INHAL			
MAK	DEU	0,01		0,02					
MAK	DEU	0,01		0,02		RESP			
VLEP	FRA	0,2							
TLV	NOR	1							
WEL	GBR	0,2					As Cu		
TLV-ACGIH		0,2							
Predicted no-effe	ct concentra	ation - PNEC	;						
Normal value in	resh water						7,8	mg/l	
Normal value in	n marine wate	er					52	mg/l	
Normal value for	or fresh water	r sediment					87	mg/kg	
Normal value for	or marine wat	ter sediment					676	mg/kg	
Health - Derived r									
Effects on consumers							ers		
Route of expos	ure Acu	te Acu	te	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca	ıl syst	emic	local	systemic		systemic	local	systemic
Inhalation				20	1			1	1
				mg/m3	mg/m3			mg/m3	mg/m3
Skin				137	VND			137	273

#### Legend:

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

mg/kg/d

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

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION

None required.

SKIN PROTECTION

None required.

EYE PROTECTION

None required.

Vapour pressure

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

**ENVIRONMENTAL EXPOSURE CONTROLS** 

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

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

## 9.1. Information on basic physical and chemical properties

Properties		Value	Information
•			illiorillation
Appearance		Bare rods - Wire - Strip & Foil	
Colour		silver	
Odour		odourless	
Odour threshold		not applicable	
Melting point / freezing point	>	650 °C	
Initial boiling point	>	not applicable	
Boiling range		not applicable	
Flammability		incombustible	
Lower explosive limit		not applicable	
Upper explosive limit		not applicable	
Flash point		not available	
Auto-ignition temperature		not applicable	
Decomposition temperature		not applicable	
pH		not applicable	
Kinematic viscosity		not applicable	
Solubility		not applicable	
Partition coefficient: n-octanol/water		not applicable	



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## SECTION 9. Physical and chemical properties .../>>

not available
Density and/or relative density 9,1

Relative vapour density not applicable Particle characteristics not available

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

### Flammable liquids

Sustained combustibility does not sustain combustion

9.2.2. Other safety characteristics

Evaporation rate not applicable Explosive properties not applicable Oxidising properties not applicable

## **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

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

#### 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.

ZINC

Risk of explosion on contact with: ammonium nitrate,ammonium sulphide,barium peroxide,lead nitride,chlorates,chromium trioxide,sodium hydroxide,oxidising agents,performic acid,acids,tetrachloromethane,water.May react dangerously with: alkaline hydroxides,bromine pentafluoride,calcium chloride,fluorine,hexachloroethane,nitrobenzene,potassium dioxide,carbon disulphide,silver.Reacts with: strong acids,strong alkalis.May develop: hydrogen.

### 10.4. Conditions to avoid

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

## 10.5. Incompatible materials

ZINC

Incompatible with: water,acids,strong alkalis.

## 10.6. Hazardous decomposition products

Information not available

## **SECTION 11. Toxicological information**

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

## 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



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

Information not available

Interactive effects

Information not available

**ACUTE TOXICITY** 

ATE (Inhalation) of the mixture:
ATE (Oral) of the mixture:
ATE (Dermal) of the mixture:

Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

Silver in grain LD50 (Oral):

> 2000 mg/kg

#### 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**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

## 12.1. Toxicity

Silver in grain LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants

0,0062 mg/l/96h 6E-05 mg/l/48h 0,002 mg/l/72h



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

## 12.2. Persistence and degradability

ZINC

Degradability: information not available

COPPER

Solubility in water

< 0,1 mg/l

Degradability: information not available

#### 12.3. Bioaccumulative potential

Information not available

## 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 ≥ 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 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. Neat product residues should be considered special non-hazardous waste.

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

CONTAMINATED PACKAGING

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

## **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

## 14.1. UN number or ID number

not applicable

#### 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



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## SECTION 14. Transport information .../>>

## 14.6. Special precautions for user

not applicable

#### 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: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Contained substance

Point

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

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

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:

**EUH210** Safety data sheet available on request.

**EUH401** To avoid risks to human health and the environment, comply with the instructions for use.

Use descriptor system:

AC Metal articles 7

Use of non-reactive processing aid at industrial site (no inclusion into or onto article) ERC

PC 38 Welding and soldering products, flux products

PC Base metals and allovs

**PROC** 25 Other hot work operations with metals SU Manufacture of basic metals, including alloys 14

SU 15 Manufacture of fabricated metal products, except machinery and equipment

SU 17 General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment

## 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)



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#### SECTION 16. Other information .../>>

- 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).

#### **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
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- 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.

ΕN



## SALDFLUX SRL SOCIETA A SOCIO UNICO

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

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 / 08 / 09 / 11 / 13 / 15 / 16.