

Safety Data Sheet dated 3/11/2023, version 5

ECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	substance/mixture and of the company/undertaking
Mixture identification:	
Trade name:	P102 - TIN ACETATE SOLUTION
Trade code:	P102
	bstance or mixture and uses advised against
Recommended use:	ů
Galvanic, base and lab ch	emistry
1.3. Details of the supplier of the safet	y data sheet
Company:	
CABRO SPA - AREZZO	
Road Setteponti 141	
52100 - Italy	
CABRO SPA	
Phone n. +39 0575 98444	2
Office hours: 9-13 / 14.30-	
Competent person responsible for	
	JI THE Salety Uata Sheet.
sds@cabro.it 1.4. Emergency telephone number	
CABRO SPA	
Phone n. +39 0575 98444	n
Office hours: 9-13 / 14.30-	
Single European emergen	
	r - 24/24h Foggia Hospital - Phone +39 0881-732326
Poison Information Center	r - 24/24h Bergamo Hospital - Phone +39 800 883300
ECTION 2: Hazards identification	
2.1. Classification of the substance or	
EC regulation criteria 1272/2008	
Warning, Acute Tox. 4,	
	Causes severe skin burns and eye damage.
\sim Danger, Skill Coll. 1A,	auses serious eye damage.
	in health and environmental effects:
No other hazards	n nealth and environmental enects.
2.2. Label elements	
2.2. Laber elements	
Hazard pictograms:	
\mathbf{V}	
• •	
Danger	
Hazard statements:	

Hazard statements: H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. Precautionary statements: P264 Wash hands thoroughly after handling. P280 Wear protective gloves/clothing and eye/face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P501 Dispose of contents/container in accordance with applicable regulations. Special Provisions: None Contains Tin acetate acetic acid ... % Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1% Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	ldent. Number		Classification
>= 40% - < 50%	Tin acetate	CAS: EC:	638-39-1 211-335-9	
>= 25% - < 30%	acetic acid %	Index number: CAS: EC: REACH No.:	64-19-7 200-580-7	 ♦ 2.6/3 Flam. Liq. 3 H226 ♦ 3.2/1A Skin Corr. 1A H314 Specific Concentration Limits: C >= 90%: Skin Corr. 1A H314 25% <= C < 90%: Skin Corr. 1B H314 10% <= C < 25%: Skin Irrit. 2 H315 10% <= C < 25%: Eye Irrit. 2 H319

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

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Protect uninjured eye. In case of Ingestion: Do NOT induce vomiting. Give nothing to eat or drink. Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY. In case of Inhalation: Remove casualty to fresh air and keep warm and at rest. 4.2. Most important symptoms and effects, both acute and delayed None 4.3. Indication of any immediate medical attention and special treatment needed In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment: None SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media: Water. Carbon dioxide (CO2). Extinguishing media which must not be used for safety reasons: None in particular. 5.2. Special hazards arising from the substance or mixture

Do not inhale combustion gases

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

- Wear personal protection equipment.
- Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

- 6.3. Methods and material for containment and cleaning up
 - Wash with plenty of water.
- 6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists. Don't use empty container before they have been cleaned.

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Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed. Incompatible materials:

None in particular.

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters acetic acid ... % - CAS: 64-19-7 TLV - TWA: 25 mg/m3, 10 ppm EU - TWA(8h): 25 mg/m3, 10 ppm - STEL: 50 mg/m3, 20 ppm ACGIH - TWA(8h): 10 ppm - STEL: 15 ppm - Notes: URT and eye irr, pulm func **DNEL Exposure Limit Values** acetic acid ... % - CAS: 64-19-7 Consumer: 25 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term (acute) Consumer: 25 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term (repeated) Worker Industry: 25 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term (acute) Worker Industry: 25 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term (repeated) **PNEC Exposure Limit Values** acetic acid ... % - CAS: 64-19-7 Target: Fresh Water - Value: 3.05 mg/l Target: periodic release, aquatic - Value: 30.58 mg/l Target: Freshwater sediments - Value: 11.36 mg/kg Target: Marine water sediments - Value: 1.13 mg/kg Target: Soil (agricultural) - Value: 0.47 mg/kg 8.2. Exposure controls Eye protection: Use close fitting safety goggles, don't use eye lens. Protection for skin: Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton Protection for hands: Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber. Respiratory protection: Not needed for normal use. Thermal Hazards: None Environmental exposure controls: None Appropriate engineering controls: None



Properties	Value	Method:	Notes
Physical state:	Liquid		
Colour:	Light yellow		
Odour:	Pungent		
Melting point/freezing point:	N.A.		
Boiling point or initial boiling point and boiling range:	N.A.		
Flammability:	Non- flammable		
Lower and upper explosion limit:	N.A.		
Flash point:	N.A.		
Auto-ignition temperature:	N.A.		
Decomposition temperature:	N.A.		
pH:	<2		
Kinematic viscosity:	N.A.		
Solubility in water:	Soluble		
Solubility in oil:	N.A.		
Partition coefficient n- octanol/water (log value):	N.A.		
Vapour pressure:	N.A.		
Density and/or relative density:	N.A.		
Relative vapour density:	N.A.		
	Particle ch	aracteristics:	
Particle size:	N.A.		

9.1. Information on basic physical and chemical properties

9.2. Other information

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Properties	Value	Method:	Notes
Miscibility:	N.A.		

SECTION 10	: Stability and reactivity
10.1. Read	
	table under normal conditions
	mical stability
	table under normal conditions
	sibility of hazardous reactions
	one
	ditions to avoid table under normal conditions.
	mpatible materials
	one in particular.
	ardous decomposition products
	one.
SECTION 11	: Toxicological information
11.1. Infor	mation on hazard classes as defined in Regulation (EC) No 1272/2008
	gical information of the product:
	102 - TIN ACETATE SOLUTION
a)	acute toxicity
,	The product is classified: Acute Tox. 4 H302
	ATEmix - Oral 1250 mg/kg bw
b)	skin corrosion/irritation
	The product is classified: Skin Corr. 1A H314
c)	serious eye damage/irritation
	The product is classified: Eye Dam. 1 H318
d)	respiratory or skin sensitisation
	Not classified
	Based on available data, the classification criteria are not met
e)	germ cell mutagenicity
	Not classified
_	Based on available data, the classification criteria are not met
f)	carcinogenicity
	Not classified
,	Based on available data, the classification criteria are not met
g)	reproductive toxicity
	Not classified
l-)	Based on available data, the classification criteria are not met
n)	STOT-single exposure
	Not classified
i)	Based on available data, the classification criteria are not met
1)	STOT-repeated exposure Not classified
	Based on available data, the classification criteria are not met
i)	aspiration hazard
])	Not classified
	Based on available data, the classification criteria are not met
Tovicolo	gical information of the main substances found in the product:
	cetic acid % - CAS: 64-19-7

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a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat = 3530 mg/kg - Notes: dw Test: LD50 - Route: Oral - Species: Mouse = 4960 mg/kg - Notes: dw Test: LC50 - Route: Inhalation - Species: Rat > 16000 Ppm 11.2. Information on other hazards Endocrine disrupting properties: No endocrine disruptor substances present in concentration >= 0.1% **SECTION 12: Ecological information** 12.1. Toxicity Adopt good working practices, so that the product is not released into the environment. P102 - TIN ACETATE SOLUTION Not classified for environmental hazards Based on available data, the classification criteria are not met acetic acid ... % - CAS: 64-19-7 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish > 300.82 mg/l - Duration h: 96 - Notes: Metodo OECD 203 Endpoint: EC50 - Species: Daphnia > 300.82 mg/l - Duration h: 48 - Notes: Metodo OECD 202 Endpoint: EC10 - Species: Algae > 300.82 mg/l - Duration h: 72 12.2. Persistence and degradability N.A 12.3. Bioaccumulative potential N.A. 12.4. Mobility in soil N.A. 12.5. Results of PBT and vPvB assessment vPvB Substances: None - PBT Substances: None 12.6. Endocrine disrupting properties No endocrine disruptor substances present in concentration >= 0.1% 12.7. Other adverse effects None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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SECTION 14: Transport information



14.1. UN number or ID number ADR-UN Number: IATA-UN Number: IMDG-UN Number: 14.2. UN proper shipping name ADR-Shipping Name:

IATA-Shipping Name:

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(acetic acid ... %) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(acetic acid ... %)

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IMDG-Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(acetic acid ... %) 14.3. Transport hazard class(es) 8 ADR-Class: 80 ADR - Hazard identification number: IATA-Class: 8 8 IATA-Label: IMDG-Class: 8 14.4. Packing group Ш ADR-Packing Group: IATA-Packing group: Ш IMDG-Packing group: Ш 14.5. Environmental hazards ADR-Enviromental Pollutant: No IMDG-Marine pollutant: No IMDG-EmS: F-A, S-B 14.6. Special precautions for user ADR-Subsidiary hazards: 274 ADR-S.P.: ADR-Transport category (Tunnel restriction code): 3 (E) IATA-Passenger Aircraft: 852 IATA-Subsidiary hazards: IATA-Cargo Aircraft: 856 IATA-S.P.: A3 A803 IATA-ERG: 8L IMDG-Subsidiary hazards: IMDG-Stowage and handling: Category A SW2 IMDG-Segregation: SGG1 SG36 SG49 14.7. Maritime transport in bulk according to IMO instruments N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 2020/878 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP) Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 CLP)

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Regulation (EU) n. 2021/849 (ATP 17 CLP) Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: Restrictions related to the product: Restriction 3 Restriction 40 Restrictions related to the substances contained: Restriction 75 Where applicable, refer to the following regulatory provisions : Directive 2012/18/EU (Seveso III) Regulation (EC) nr 648/2004 (detergents). Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1 None

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2

This safety data sheet has been completely updated in compliance to Regulation 2020/878. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

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Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Acute Tox. 4, H302	Calculation method
Skin Corr. 1A, H314	Calculation method
Eye Dam. 1, H318	Calculation method

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

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