

# Safety data sheet

## according to EC Regulations No 1907/2006 (REACH) and No 453/2010

Printing date 28.11.2018

Revision: 28.11.2018

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

- **1.1 Product identifier**
- Trade name: **TETRACIP ZAPI**
- **Sds code/version:** 0/15
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Insecticide
- **Application of the substance / the mixture** Insecticide for domestic and civil use
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Zapi S.p.A.  
Via Terza Strada, 12  
35026 Conselve (Pd)  
Italy  
Tel. +39 049 9597737 Fax +39 049 9597735  
customer.service@zapi.it - www.zapi.it  
E-mail address of the competent person responsible for the SDS: techdept@zapi.it
- **Further information obtainable from:** Tech. dept.
- **1.4 Emergency telephone number:** Zapi customer service: tel. +39 049 9597737 (9:00-12:00/14:00-17:00)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3      H226 Flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.



GHS05 corrosion

Eye Dam. 1      H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1      H400 Very toxic to aquatic life.

Aquatic Chronic 1      H410 Very toxic to aquatic life with long lasting effects.



GHS07

STaT SE 3      H336 May cause drowsiness or dizziness.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R65:      Harmful: may cause lung damage if swallowed.



N; Dangerous for the environment

R51/53:      Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R10:      Flammable.

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**- Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

**- Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**- 2.2 Label elements****- Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**- Hazard pictograms**

GHS02    GHS05    GHS07    GHS08    GHS09

**- Signal word** Danger**- Hazard-determining components of labelling:**

hydrocarbons C9-C11 isoalkanes, cyclics <2% aromatics  
Calcium dodecylbenzenesulfonate  
butanol

**- Hazard statements**

H226 Flammable liquid and vapour.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.  
H304 May be fatal if swallowed and enters airways.  
H410 Very toxic to aquatic life with long lasting effects.

**- Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapours.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P233 Keep container tightly closed.  
P273 Avoid release to the environment.  
P271 Use only outdoors or in a well-ventilated area.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.  
P391 Collect spillage.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P405 Store locked up.  
P501 Dispose of contents/container according to local regulations.

**- 2.3 Other hazards****- Results of PBT and vPvB assessment**

- **PBT:** Not applicable.  
- **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients****- 3.2 Chemical characterisation: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

**- Dangerous components:**

CAS: 64742-48-9	hydrocarbons C9-C11 isoalkanes, cyclics <2% aromatics	50-75%
EC number: 920-134-1	Xn R65 R10-66	
	Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411	

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CAS: 51-03-6 EINECS: 200-076-7	piperonyl butoxide N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	10-20%
CAS: 52315-07-8 EINECS: 257-842-9	cypermethrin Xn R20/22; Xi R37; N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H332; STaT SE 3, H335	5-10%
CAS: 26264-06-2 EINECS: 247-557-8	Calcium dodecylbenzenesulfonate Xi R38-41 Eye Dam. 1, H318; Skin Irrit. 2, H315	1-5%
CAS: 78-83-1 EINECS: 201-148-0	butanol Xi R37/38-41 R10-67 Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STaT SE 3, H335-H336	1-5%
CAS: 7696-12-0 EINECS: 231-711-6	tetramethrin N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≤1%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

#### - 4.1 Description of first aid measures

- **General information:** Please refer to the instructions below for each specific way of exposure.

- **After inhalation:** Supply fresh air and to be sure call for a doctor.

#### - **After skin contact:**

If skin irritation continues, consult a doctor.

Wash immediately with water or physiological saline.

- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:** Seek immediate medical advice.

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

Symptoms of the CNS: tremors, convulsions, ataxia; irritation of the air ways: rhinorrhea, cough, bronchospasm and dyspnea; allergic reactions causing: anaphylaxis, hyperthermia, sweating, skin oedema, peripheral vascular shock.

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

No further relevant information available.

### SECTION 5: Firefighting measures

#### - 5.1 Extinguishing media

- **Suitable extinguishing agents:** Ca2, powder or water spray. Fight larger fires with water spray.

- **5.2 Special hazards arising from the substance or mixture** In case of fire, toxic gases may be generated.

- **5.3 Advice for firefighters** In case of fire, toxic gases may be generated.

- **Protective equipment:** Do not inhale explosion gases or combustion gases.

#### - **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

#### - 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

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

Ensure adequate ventilation.

Absorb liquid components with liquid-binding material.

Dispose of the material collected according to regulations.

#### - 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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### SECTION 7: Handling and storage

#### - 7.1 Precautions for safe handling

Store in a fresh and dry place and in closed containers.

Do not smoke near the product.

Keep away from heat and direct sunlight.

#### - Information about fire - and explosion protection: See Section 6.

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

##### - Storage:

##### - Requirements to be met by storerooms and receptacles:

Store in a cool location.

Store only in original container.

##### - Information about storage in one common storage facility:

Store away from foodstuffs.

When handling the product, do not contaminate food, drinks or containers meant to contain them.

##### - Further information about storage conditions:

Protect from frost.

Protect from humidity and water.

Store in a fresh and dry place and in closed containers.

Protect from heat and direct sunlight.

Pay attention when re-opening containers already open.

#### - 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### - Additional information about design of technical facilities: No further data; see item 7.

#### - 8.1 Control parameters

##### - Ingredients with limit values that require monitoring at the workplace:

##### 78-83-1 butanol (1.5%)

WEL	Short-term value: 231 mg/m <sup>3</sup> , 75 ppm
	Long-term value: 154 mg/m <sup>3</sup> , 50 ppm

#### - Additional information: The lists valid during the making were used as basis.

#### - 8.2 Exposure controls

##### - Personal protective equipment:

##### - General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.

Keep away from food, drink and animal feedingstuffs.

Wash hands before breaks and at the end of work.

##### - Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

##### - Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

##### - Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

##### - Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- Eye protection:



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

### - 9.1 Information on basic physical and chemical properties

#### - General Information

#### - Appearance:

Form: Concentrate liquid

Colour: Yellow

- Odour: Characteristic

- Odour threshold: Not determined.

- pH-value: Not determined.

#### - Change in condition

Melting point/Melting range: Not applicable

Boiling point/Boiling range: 180 °C

- Flash point: 60 °C

- Flammability (solid, gaseous): Not applicable.

#### - Ignition temperature:

Decomposition temperature: Not determined.

- Self-igniting: Product is not selfigniting.

- Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

#### - Explosion limits:

Lower: 0.6 Vol %

Upper: 7.0 Vol %

- Vapour pressure at 20 °C: 1 hPa

- Density: Not determined.

- Relative density: Not determined.

- Vapour density: Not determined.

- Evaporation rate: Not determined.

#### - Solubility in / Miscibility with water:

Fully miscible.

- Partition coefficient (n-octanol/water): Not determined.

#### - Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

#### - Solvent content:

Organic solvents: 1.2 %

Solids content: 32.3 %

- 9.2 Other information: No further relevant information available.

## SECTION 10: Stability and reactivity

- 10.1 Reactivity Under standard handling and storing conditions, the product does not show any dangerous reaction.

- 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

#### - LD/LC50 values relevant for classification:

##### 51-03-6 piperonyl butoxide

Oral	LD50	7220 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

##### 52315-07-8 cypermethrin

Oral	LD50	250-4150 mg/kg
(rat) Dermal	LD50	>4920 mg/kg
(rat)		>2460 mg/kg (rabbit)
Inhalative	LC50/4h	2.5 mg/l (rat)

##### 78-83-1 butanol

Oral	LD50	2460 mg/kg (rat)
Dermal	LD50	3400 mg/kg (rabbit)

##### 7696-12-0 tetramethrin

Oral	LD50	>2000 mg/kg
(rat) Dermal	LD50	>2000 mg/kg
(rat) Inhalative	LC50/4h	>5.63 mg/l
(rat)		

- **Primary irritant effect:**
- **Skin corrosion/irritation** Any effect known.
- **Serious eye damage/irritation** Causes serious eye damage
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

### SECTION 12: Ecological information

- **12.1 Toxicity**

#### - Aquatic toxicity:

##### 51-03-6 piperonyl butoxide

EC50	0.51 mg/l (daphnia)
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##### 52315-07-8 cypermethrin

LC50/48h	0.00015 mg/l (daphnia)
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##### 7696-12-0 tetramethrin

EC50	0.47 mg/l (daphnia)
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- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxic effects:**

- **Remark:** Toxic for fish

#### - Other information:

##### 52315-07-8 cypermethrin

Oral LD50	>2000 mg/kg (chicken)
	>10000 mg/kg (mallard duck)

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**- Additional ecological information:****- General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms

**- 12.5 Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**- 12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****- 13.1 Waste treatment methods****- Recommendation**

Dispose of in accordance with local requirements.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**- Uncleaned packaging:****- Recommendation:** Dispose of in accordance with local requirements.**SECTION 14: Transport information****- 14.1 UN-Number****- ADR, IMDG, IATA**

UN1993

**- 14.2 UN proper shipping name****- ADR**  
C111993 FLAMMABLE LIQUID, N.O.S. (hydrocarbons C9-  
C11  
isoalkanes, cyclics <2% aromatics, ISOBUTAN  
OL  
(ISOBUTYL ALCOHOL)), ENVIRONMENTAL  
LY HAZARDOUS, special provision 640E**- IMDG**FLAMMABLE LIQUID, N.O.S. (hydrocarbons C9-  
C11 isoalkanes, cyclics <2% aromatics, ISOBUT  
ANOL (ISOBUTYL ALCOHOL)), MARINE POLLUTANT**- IATA**

FLAMMABLE LIQUID, N.O.S. (hydrocarbons C9-

**- 14.3 Transport hazard class(es)****- ADR, IMDG****- Class**  
**- Label**3 Flammable liquids.  
3**- IATA****- Class**  
**- Label**3 Flammable liquids.  
3**- 14.4 Packing group****- ADR, IMDG, IATA**

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- <b>14.5 Environmental hazards:</b>	Product contains environmentally hazardous substances: cypermethrin
- <b>Marine pollutant:</b>	Yes
- <b>Special marking (ADR):</b>	Symbol (fish and tree)
- <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
- <b>Danger code (Kemler):</b>	30
- <b>EMS Number:</b>	F-E, <u>S-E</u>
- <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>- Transport/Additional information:</b>	
- <b>ADR</b>	
- <b>Limited quantities (LQ)</b>	5L
- <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- <b>Transport category</b>	3
- <b>Tunnel restriction code</b>	D/E
- <b>IMDG</b>	
- <b>Limited quantities (LQ)</b>	5L
- <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- <b>UN "Model Regulation":</b>	UN1993, FLAMMABLE LIQUID, N.O.S. (hydrocarbons C9- C11 isoalkanes, cyclics <2% aromatics, ISOBUTANOL (ISOBUTYL ALCOHOL)), special provision 64 0E, ENVIRONMENTALLY HAZARDOUS, 3,

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Chemical safety assessment** For an appropriate use of the product, follow the indications mentioned in the label.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### - Relevant phrases

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.
- R20/22 Harmful by inhalation and if swallowed.
- R37 Irritating to respiratory system.
- R37/38 Irritating to respiratory system and skin.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.

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R67 Vapours may cause drowsiness and dizziness.

**- Abbreviations and acronyms:**

ADR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

STaT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

**- Sources**

1. 1999/45/EC Directive, 2006/8/EC Directive and following amendments
2. 67/548/EEC Directive and following amendments
3. 91/155/EEC Directive and following amendments
4. The Merck Index Ed. 10
5. The E-Pesticide Manual 2.1 Version (2001)
6. Regulation (EC) No. 1907/2006 and following amendments