

## Safety Data Sheet

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

**1.1. Product identifier.**

Product name.

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

Description/Intended use.

**Fast-acting spray insecticide specific for wasps. For domestic and civil use.****1.3. Details of the supplier of the safety data sheet.**

Name.

**COLKIM S.r.l.**

Full address.

**Via Piemonte, 50**

District and Country.

**40064 OZZANO EMILIA (BO)****Italia****Tel. 051 / 799445****Fax. 051 / 797555**E-mail address of the competent person,  
Responsible for the Safety Data Sheet.**info@colkim.it**

Product distribution by:

**COLKIM S.r.l. - Via Piemonte, 50 - 40064 OZZANO E. (BO)****1.4. Emergency telephone number.**

For urgent inquiries refer to.

**118**

Contact a poison control center:

Poison Control Center	Address	Telephone Number
CAV "Osp. Pediatrico Bambino Gesù"	P.zza Sant'Onofrio, 4 – 00165 Roma (RM)	06 68593726
Az. Osp. Univ. Foggia	V.le Luigi Pinto, 1 – 71122 Foggia (FG)	0881 732326
Az. Osp. "A. Cardarelli"	Via A. Cardarelli, 9 – 80131 Napoli (NA)	081 7472870
CAV Policlinico "Umberto I"	V.le del Policlinico, 155 – 00161 Roma (RM)	06 49978000
CAV Policlinico "A. Gemelli"	Largo Agostino Gemelli, 8 – 00168 Roma (RM)	06 3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica	Largo Brambilla, 3 – 50134 Firenze (FI)	055 7947819
CAV Centro Nazionale di Informazione Tossicologica	Via Salvatore Maugeri, 10 – 27100 Pavia (PV)	0382 24444
Osp. Niguarda Ca' Granda	P.zza Ospedale Maggiore, 3 – 20162 Milano (MI)	02 66101029
Azienda Ospedaliera Papa Giovanni XXII	P.zza OMS, 1 – 24127 Bergamo (BG)	800883300

### 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 EC Regulation 1907/2006 and subsequent amendments. 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:

Flammable aerosol, category 1

H222

Extremely flammable aerosol.

Flammable solid, category 2.

H229

Pressurized container: May burst if heated.

Hazardous to the aquatic environment, chronic toxicity,  
category 1.

H410

Very toxic to aquatic life with long lasting effects.

**2.2. Label elements.**

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

Hazard pictograms:



Signal word: Danger

Signal word: Warning

Hazard statements:

<b>H222</b>	Extremely flammable aerosol.
<b>H229</b>	Pressurized container: May burst if heated.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>EUH208</b>	Contains PERMETHRIN. May produce an allergic reaction.

Precautionary statements:

<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P211</b>	Do not spray on an open flame or other ignition source.
<b>P251</b>	Pressurized container: do not pierce or burn, even after use.
<b>P273</b>	Avoid release to the environment.
<b>P391</b>	Collect spillage.
<b>P410+412</b>	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

**2.3. Other hazards.**

Information not available.


**SECTION 3. Composition/information on ingredients.****3.1. Substances.**

Information not relevant.

**3.2. Mixtures.**

Contains:

Identification	Conc. %.	Classification 1272/2008 (CLP).
<b>BUTANE</b>		
CAS. 106-97-8	7-9	Flam. Gas 1, H220
EC. 203-448-7		
INDEX. 601- 004-00-0		
No. REACH. 05-2117241691-47-0000		
<b>PROPANE</b>		
CAS. 74-98-6	3-4	Flam. Gas 1, H220
EC. 200-827-9		
INDEX.: 601- 003-00-5		
No. REACH. 05-2117241095-51-0000		
<b>C 11-15 ISOPARAFINE</b>		
CAS. 90622-58-5	4 - 4,5	Flam. Liq. 3 H226, Asp. Tox. 1 H304, EUH066
EC 292-460-6		
INDEX. -		
<b>ISOBUTANE</b>		
CAS. 75-28-5	3 - 3,5	Flam. Gas 1 H220, Press. Gas H280

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EC 200-857-2  
INDEX. -  
No. Reg. 05-2117241316-51-0000

#### LAURETH-23

CAS. 68439-50-9 2 - 2,5  
EC -  
INDEX. -

#### PIPERONYL BUTOXIDE ULTRA

CAS. 51-03-6 1 - 1,5 Aquatic Acute 1 H400 M=1, Aquatic Chronic 1, H410

EC 200-076-7  
INDEX. -  
No. Reg. 01-2119537431-46-0000

#### GLYCERYL OLEATE

CAS. 68424-61-3 1 - 1,5  
EC 270-312-1  
INDEX. -

#### PERMETRINE

CAS. 52645-53-1 0,4 - 0,45 Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Sens. 1, H317, Aquatic Acute 1 H400 M=1000, Aquatic Chronic 1, H410 M=1000

EC 258-067-9  
INDEX. 613-058-00-2

#### TETRAMETHRIN

CAS. 7696-12-0 0,25 - 0,3 Aquatic Acute 1 H400 M=1, Aquatic Chronic 1, H410

EC 231-711-6  
INDEX. -  
No. Reg. 05-2116382403-48-0000

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. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION Remove victim to fresh air and keep at rest in a position comfortable for breathing. . 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.

For symptoms and effects caused by the contained substances, see chap. 11.

### 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.

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

### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

## 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.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal firefighting 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.

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

### 6.2. Environmental precautions.

Do not disperse in the environment.

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

Use inert absorbent material to soak up leaked product. 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.

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

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

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C/122°F, away from any combustion sources.

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

Information not available.

## SECTION 8. Exposure controls/personal protection.

### 8.1. Control parameters.

#### Regulatory References:

Italy	Legislative Decree No. 81 of 9 April 2008
Switzerland	Valeurs limites d'exposition aux postes de travail 2012.
OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
TLV-ACGIH	ACGIH 2012

### BUTANE


#### Threshold Limit Value.

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm
TVL	CH	1900	600		
TLV-ACGIH			1000		

### PROPANE

#### Threshold Limit Value.

Type	Country	TWA/8h	STEL/15min
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	mg/m3	ppm	mg/m3	ppm
TLV-ACGIH		1000		

Legend:

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

## 8.2. Exposure controls.

### HAND PROTECTION

None required.

### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

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. The protection provided by masks is in any case limited.

### 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.

Appearance	Aerosol
Colour	White
Odour	Characteristic
Odour threshold.	Not available.
pH.	Not available.
Melting point / freezing point.	Not relevant.
Initial boiling point.	Not relevant.
Boiling range.	Not relevant.
Flash point.	Not applicable.
Evaporation Rate	Not available.
Flammability of solids and gases	Not applicable.
Lower inflammability limit.	Not applicable.
Upper inflammability limit.	Not applicable.
Lower explosive limit.	Not applicable.
Upper explosive limit.	Not applicable.
Vapour pressure.	Not relevant.
Vapour density	Not relevant.
Density.	Not available.
Solubility	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not applicable.
Decomposition temperature.	Not applicable.
Viscosity	Not available.
Explosive properties	Not applicable
Oxidising properties	Not applicable

### 9.2. Other information.


VOC (Directive 2010/75/EC) :	15,00 %
VOC (volatile carbon) :	12,34 %

## 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.

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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.

### 10.4. Conditions to avoid.

Avoid overheating.

### 10.5. Incompatible materials.

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

### 10.6. Hazardous decomposition products.

Information not available.

## SECTION 11. Toxicological information.

### 11.1. Information on toxicological effects.

#### PIPERONYL BUTOXIDE

LD50 (oral): 4570 mg/Kg (males) 7220 mg/Kg (females) rat

LD50 (Dermal): > 2000 mg/Kg rabbit

LC50 (Inhalation) > 5,9 mg/L/4h rat

#### TETRAMETHRINE

LD50 (Oral) > 2000 mg/kg rat pc

LD50 (Dermal). > 2000 mg/kg rat pc

CL50: > 5.63 mg/l/4h (air) rat

#### PERMETHRIN

LD50 (Oral).> 2000 mg/kg rat

LD50 (Dermal).> 2000 mg/kg rat

LC50 (Inhalation).0,45 mg/L rat

## SECTION 12. Ecological information.

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

### 12.1. Toxicity.

#### TETRAMETHRIN TECHNICAL GRADE

LC50 - for Fish. 0,033 mg/l/96h

EC50 - for Crustacea. 0,47 mg/l/48h

EC50 - for Algae / Aquatic Plants. > 1,36 mg/l/72h

#### PERMETHRIN

LC50 - for Fish. 0,001 mg/l/96h SPECIES *Oncorhynchus clarkii stomias*

EC50 - for Crustacea. 0,0003 mg/l/48h SPECIES *Daphnia magna*

EC50 - for Algae / Aquatic Plants. 1,6 mg/l/72h SPECIES *Anabaena inaequalis*

#### PIPERONYL BUTOXIDE ULTRA

LC50 - for Fish. 8,9 µg/L/96h SPECIES Guppy (*Poecilia reticulata*)

LC50 - for Fish. 0,145mg/L/96h SPECIES Carpa (*Cyprinus carpio*)

EC50 - for Algae / Aquatic Plants. >0,022 mg/L/72h SPECIE (*Scenedesmus subspicatus*)

EC50 - for Crustacea. 0,020 mg/L/24 h SPECIES *Daphnia magna*

EC50 – Activated sludge from sewage >1000mg/L/3h

Acute toxicity for worm: >1200mg/kg

#### LAURETH-23

LC50 - for Fish. < 100 mg/l/96h

EC50 - for Crustacea. > 100 mg/l/48h

#### C 11-15 ISOPARAFINE

LC50 - for Fish. > 100 mg/l/96h

### 12.2. Persistence and degradability.

**VESPA SPRAY**

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 greater than 0,1%.

**12.6. 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.

The CER codes recommended (which may change according to the use) are:

CER 16.03.05\* – Organic waste containing hazardous substances.

**CONTAMINATED PACKAGING**

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

The CER codes recommended (which may change according to the use) are:

CER 15.01.10\* - Packaging containing residues of or contaminated by dangerous substances.

**SECTION 14. Transport information.****14.1. UN number.**

ADR / RID, IMO, IATA: 1950

**14.2. UN proper shipping name.**

ADR / RID: AEROSOL  
IMO: AEROSOLS (PIPERONYL BUTOXIDE ULTRA)  
IATA: AEROSOL

**14.3. Transport hazard class(es).**

ADR / RID: Class: 2 Label: 2.1

IMO: Class: 2 Label: 2.1

IATA: Class: 2 Label: 2.1


**14.4. Packing group.**

ADR / RID, IMO, IATA: Not applicable.

**14.5. Environmental hazards.**

IMO: Marine Pollutant.



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#### 14.6. Special precautions for user.

ADR / RID:	HIN - Kemler: --	Limited Quantities: 1L	Tunnel restriction code: (D)
IMO:	Special Provision: -		
IATA:	EMS: F-D, S-U		
	Cargo:	Maximum quantity: 150 Kg	Packaging instructions: 203
	Pass.:	Maximum quantity: 75 Kg	Packaging instructions: 203
	Special Instructions:	A145, A167, A802	

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Information not relevant.

### SECTION 15. Regulatory information.

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

Seveso Category - P3a, E1

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

##### Contained substances.

##### Product.

Point. 28-29 No. Reg.: 05- 2117241691-47-0000

##### Substances in Candidate List (Art. 59 REACH).

None

##### Substances subject to authorisation (Annex XIV REACH).

None.

##### Substances subject to exportation reporting pursuant to (EC) Reg. 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.

Refer to the protection and prevention measures in sections 7 and 8 of the datasheet.


### SECTION 16. Other information.

#### MINISTRY OF HEALTH AUTHORIZATION N. 18.769

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

<b>Aerosol1</b>	Aerosol, Category 1
<b>Flam. Gas 1</b>	Flammable gas, category 1
<b>Press. Gas</b>	Pressurised gas
<b>Flam Liq. 3</b>	Flammable liquid, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<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>H220</b>	Extremely flammable gas.
<b>H222</b>	Extremely flammable aerosol.
<b>H226</b>	Flammable liquid and vapour.
<b>H229</b>	Pressurised container: may burst if heated.
<b>H280</b>	Contains gas under pressure; may burst if heated.



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<b>H302</b>	Harmful if swallowed.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H317</b>	May cause an allergic skin reaction.
<b>H332</b>	Harmful if inhaled.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very 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
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: 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: EC Regulation 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 STEL: Short-term exposure limit
- TWA: Time-weighted average 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 (EU) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 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
- 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
  - ECHA website

#### 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.

#### Changes to previous review:

The following sections were modified:

1.2; 1.4; 2.1; 2.2; 3.2; 4.1; 8.2; 9.1; 11.1; 12.1; 13.1; 15.2.

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**Legend of the information contained at section 9.1 of the datasheet:**

Not Applicable: the data or the characteristic is not applicable to the product in question, due to its nature.

Not Relevant: the data or the characteristic is not relevant to determine the hazardous characteristics of the product.

Not Available: the data or the characteristic, even though it would be potentially relevant to determine the characteristics of the product, is not available.