	COLKIM S.r.I.	Revision nr. 2.8 Dated 28/02/2018	
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Safety Data Sheet			
SECTION 1. Identification	of the substance/mixture and of the company/	undertaking.	
1.1. Product identifier.			
Product name.	NO-LARV GRANULI		
1.2. Relevant identified uses of the substance or mixture and uses advised against.			
Description/Intended use.	Insecticide in effervescent granules. For the con spawning areas.	Insecticide in effervescent granules. For the control of mosquito and fly larvae in the spawning areas.	
1.3. Details of the supplier of the sa	fety data sheet.		
Name. Full address. District and Country.	COLKIM S.r.I. Via Piemonte, 50 40064 OZZANO EMILIA (BO) Italia Tel. 051 / 799445 Fax. 051 / 797555		
E-mail address of the competent pers Responsible for the Safety Data Shee Product distribution by:		IO E. (BO)	
1.4. Emergency telephone number.			
For urgent inquiries refer to.	118		
Contact a poison control center			

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:

Eye irritation, category 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment - Chronic Hazard,	H410	Very toxic to aquatic life with long lasting effects.



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Category 1

2.2. Label elements.

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

Hazard pictograms:

Signal words: Warning

Hazard statements:

Precautionary statements:

P102	Keep out of reach of children.
P264	Wash hands thoroughly after handling.
P270	Do no eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
	Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.
P401	Keep away from food, drink and animal feedingstuffs.
P501	Dispose of contents/container in accordance with national regulation.

2.3. Other hazards.

This substance/mixture contains no components considered to be either persistent, bioaccumula- tive and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

Conc.%	Classification 1272/2008 (CLP).
70-90	Eye Irrit. 2; H319
2	STOT RE 2; H373; Aquatic Acute 1; H400; Aquatic Chronic 1; H410
	70-90

The full wording of hazard (H) phrases is given in section 16 of the sheet.



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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 and shoes. Wash immediately with plenty of water and soap. 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. Get medical advice/attention immediately. INGESTION: Rinse mouth with water. Do NOT induce vomiting. Obtain medical attention.

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

Causes serious eye irritation.

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

The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT Carbon dioxide (CO2), Dry powder Foam Water mist UNSUITABLE EXTINGUISHING EQUIPMENT Water spray

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

5.3. Advice for firefighters.

GENERAL INFORMATION

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

Do not empty into drains. Dispose of this material and its container to hazardous or special waste collection point. Do not allow material to contaminate ground water system. Do not allow uncontrolled discharge of product into the environment. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up.

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

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.

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities.

Keep in a dry, cool place. Keep container tightly closed. Keep in a well-ventilated place. Avoid generating dust; fine dust dispersed in air in sufficient



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concentrations, and in the pres-ence of an ignition source is a potential dust explosion hazard. Stable under recommended storage conditions.

7.3. Specific end use(s).

Insecticide.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

None.

8.2. Exposure controls.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

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, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.



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9.2. Other information.

Information not available.

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.

Hazardous polymerisation does not occur.

10.4. Conditions to avoid.

Extremes of temperature and direct sunlight.

10.5. Incompatible materials.

Incompatible with: oxidizing agents, strong acids and strong bases

10.6. Hazardous decomposition products.

Burning produces noxious and toxic fumes.

SECTION 11. Toxicological information.

No episodes of damage to health due to exposure to the product are known. In any case it is recommended to operate in compliance with the rules of good industrial hygiene. The preparation may, in particularly sensitive individuals, cause slight health effects due to inhalation and / or cutaneous absorption and / or contact with the eyes and / or ingestion.

11.1. Information on toxicological effects.

ACUTE TOXICITY

LD50(Oral) >5,000 mg/kg rat BLP: yes LC50(Inhalation dust/mist) > 5.12 mg/l/4h rat BPL: yes LD50(Dermal) > 5,000 mg/kg rat BLP: yes

CITRIC ACID LD50(Oral) 3,000 mg/kg rat

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



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ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information. 12.1. Toxicity 0.000112 mg/l48h SPECIES DAPHNIA MAGNA GLP: yes EC50 - for Crustacea CITRIC ACID LC50 – for Fish 1.516 mg/l/96 h SPECIES Lepomis macrochirus LC50 - for Fish 440 - 760 mg/l/96h SPECIES Leuciscus idus 85 - 1,535 mg/l/24h SPECIES DAPHNIA MAGNA EC50 - for Crustacea N-[[(4-chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide 100 M-Factor (Acute aquatic tox icity) 1,000 M-Factor (Chronic aquatic toxicity) 12.2. Persistence and degradability

CITRIC ACID Inoculum: activated sludge Result: Readily biodegradable Biodegradation: 85 %

12.3. Bioaccumulative potential.

CITRIC ACID Species: Fish Bioconcentration factor (BCF): 0.01 Partition coefficient: n- octanol/water: log Pow: -1.7

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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 authorized 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

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ADR / RID, IMDC ADR / RID: IMDG: IATA: 14.2. UN proper s ADR / RID: IMDG: IATA:	In accordance submitted to A In accordance is not submitte In accordance IATA dangero shipping name. ENVIRONMENTA ENVIRONMENTA	DR provisions. with Section 2.10.2.7 of IMDG C ed to IMDG Code provisions. with SP A197, this product, when us goods regulations. LLY HAZARDOUS SUBSTANCE LLY HAZARDOUS SUBSTANCE	product, when is packed in receptacles of ode, this product, when is packed in rece n is packed in receptacles of a capacity ≤ E, SOLID, N.O.S.(Diflubenzuron) E, SOLID, N.O.S(Diflubenzuron) E, SOLID, N.O.S. Environmentally hazard	ptacles of a capacity ≤ 5Kg or 5L, 5Kg or 5L, is not submitted to
14.3. Transport h	azard class(es)			
ADR / RID:	Class: 9	Label: 9		
IMDG:	Class: 9	Label: 9	A.	
IATA:	Class: 9	Label: 9		
14.4. Packing gro	oup			
ADR / RID, IMDO	G, IATA:	Ш		
14.5. Environmen	ntal hazards			
ADR / RID:	Environmenta	lly Hazardous		
IMDG:	Marine Polluta	Int	× ×	
IATA:	Environmenta	lly Hazardous		
14.6. Special pred	cautions for user		•	
ADR / RID: IMDG: IATA:		HIN - Kemler: 90 Special Provision: - EMS: F-A, S-F Cargo: Pass.: Special Instructions:	Limited Quantities: 5 L Limited Quantities: 5 L Maximum quantity: 450 L Maximum quantity: 450 L A97, A158, A197	Tunnel restriction code: (-) Packaging instructions: 964 Packaging instructions: 964

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.

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors: Neither banned nor restricted

Restrictions on the marketing and use of certain danger- ous substances and preparations: Neither banned nor restricted

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Neither banned nor restricted

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	ubstances of Very High Concern for Authorisation o 1907/2006 (REACH), Article 57).	(Article 59): This product does	not contain sub- stances of very high	
Seveso III: Directive 2012/18/ substances.	/EU of the European Parliament and of the Counc	il on the control of major-accide	nt hazards involving dangerous	
E1	ENVIRONMENTAL HAZARDS	Quantity1: 100t	Quantity 2: 200t	
15.2. Chemical safety asse	essment.			
Refer to the protection and pr	revention measures in sections 7 and 8 of the data	isheet.		
SECTION 16. Other	r information.			
MINISTRY OF HEALTH AUT	HORIZATION N. 19309			
Text of hazard (H) indications	mentioned in section 2-3 of the sheet:			
Aquatic Acute 1	Hazardous to the aquatic environment — Acute H	ous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic	us to the aquatic environment — Chronic Hazard, Category 1		
Eye Irrit. 2	Serious eye irritation, Category 2			
STOT RE	Specific target organ toxicity - repeated exposure.	arget organ toxicity - repeated exposure.		
H319	Causes serious eye irritation			
H373	May cause damage to organs through prolonged	or repeated exposure		
H400	Very toxic to aquatic life	ic to aquatic life		
H410	Very toxic to aquatic life with long lasting effects			
LEGEND:				
- ADR: European Agreement	concerning the carriage of Dangerous goods by F	load		
 CAS NUMBER: Chemical A CE50: Effective concentration 	bstract Service Number on (required to induce a 50% effect)			
CE NUMBER: Identifier in E	SIS (European archive of existing substances)			
 CLP: EC Regulation 1272/2 DNEL: Derived No Effect Le 				
- EmS: Emergency Schedule				
	System of classification and labeling of chemicals	ion		
 IATA DGR: International Air IC50: Immobilization Conceit 	Transport Association Dangerous Goods Regulat ntration 50%	ion		
- IMDG: International Maritime	e Code for dangerous goods			
 IMO: International Maritime INDEX NUMBER: Identifier 				

- 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 (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament



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3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament

- 4. Regulation (EU) 2015/830 of the European Parliament
- Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 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)
- 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

FCHA 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.

Changes to previous review:

The following sections were modified:

11; 14.

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.