

# **SAFETY DATA SHEET**

# Section 1. Identification of the material and the supplier

Product: Formic Pro
Item Code: Formic Pro

Product Use: Acaricide, Hive cleanser Restriction of Use: Refer to Section 15

New Zealand Supplier: New Zealand Beeswax

44 Gladstone Street South RD22

Geraldine, NZ 7992 +64 3-693 9189

**Emergency Telephone:** 0800 764 766 (National Poison Centre)

Manufacturer: NOD Apiary Products Ltd.

Address: P.O. Box 117, 2325 Frankford Road Frankford, Ontario Canada K0K 2C0

Telephone: +1 613 398 8422

Date of SDS Preparation: 31 October 2019

# Section 2. Hazards Identification

This substance is hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001

**EPA Approval No: HSR100672** 

# **Pictograms**

Telephone:





Toxic

Corrosive

Signal Word: DANGER

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Category 4
6.1D (inhalation)	H332	Harmful if inhaled.	Category 4
8.1A	H290	May be corrosive to metals.	Category 1
8.2B	H314	Causes severe skin burns and eye damage.	Category 1B
8.3A	H318	Causes serious eye damage.	Category 1
9.1D	H401	Toxic to aquatic life.	Category 4
9.3C	H433	Harmful to terrestrial vertebrates.	-

Product Name: Formic Pro Issued by: NOD Apiary Products Ltd.

<b>Prevention Code</b>	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P234	Keep only in original container.
P260	Do not breathe fumes or vapours.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 +	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P330+P331	
P303 +	IF ON SKIN (or hair): Remove/Take off immediately all contaminated
P361+P353	clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position
	comfortable for breathing.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.

Storage Code	Storage Statement
P405	Store locked up.
P406	Store in corrosive resistant/ container with a resistant inner liner.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

# Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Formic Acid	42.25	64-18-6
Inert ingredients	57.75	Proprietary

# **Section 4.** First Aid Measures

#### Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Seek immediate medical attention.

If on Skin Wash with plenty of soap and water. Take off contaminated clothing and wash

before re-use. Seek immediate medical attention.

If Swallowed Rinse mouth. DO NOT induce vomiting. Never give anything to the mouth of an

unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the

lungs. Seek medical attention if you feel unwell.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position

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# Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from combustion products	If heated to decomposition, the following substances may be formed: carbon dioxide, carbon monoxide and smoke.
Suitable Extinguishing media	Dry Chemical, carbon dioxide, water spray, or alcohol resistant foam may be used on fires involving this product.
Precautions for firefighters and special protective clothing	Wear self-contained breathing apparatus, pressure demand, MSHA/NIOSH approved (or equivalent) and full protective gear when fighting fires containing this product. Cool containers with water to prevent rupture.
HAZCHEM CODE	1X

#### Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel.

Pick up any spilled product and place in a sealable High-Density Polyethylene (HDPE) container for disposal.

# Section 7. Handling and Storage

#### **Precautions for Handling:**

- Read label before use.
- Keep only in original container.
- Do not breathe fumes or vapours.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective clothing.
- Use caution when opening the container, especially in warm weather, i.e.: open outdoors and stay upwind.

# **Precautions for Storage:**

- Store away from sulfuric acid, oxidizing agents, and sources of ignition.
- Store locked up.
- Store in original container (corrosive resistant) in a cool, dry, and well-ventilated area under 25°C.

#### Section 8 Exposure Controls / Personal Protection

#### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	mg/m³	STEL ppm	mg/m³
Formic acid [64-18-6]	5	9.4	10	19

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

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### **Engineering Controls**

Keep away from ignition sources. Keep water handy for eye wash and rinsing if skin contact occurs. Work outdoors upwind of the product or provide adequate ventilation. Product is highly corrosive to most metals, avoid contact with metals.

# **Personal Protection**

Eyes	Wear goggles with side shields. Avoid wearing contact lenses.
Hands and	Wear coveralls over a long-sleeved shirt, long pants, socks and shoes, acid
Skin	resistant gloves (PVC, neoprene or nitrile).
Respiratory	If working indoors wear a respirator with an organic-vapor removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV)cartridge or canister with any N, R, P or HE pre-filter.
General	Avoid contact with eyes, skin and clothing. Do not wear contact lenses.  Avoid breathing vapours. Do not swallow. Wash thoroughly after handling and before eating, drinking or smoking. Avoid contamination of food, beverages, or smoking materials. Remove contaminated clothing promptly and clean thoroughly before reuse.

# **Section 9** Physical and Chemical Properties

Ammanunca	White to vellow solid
Appearance	White to yellow solid
Odour	Vapour has a pungent, penetrating odor.
Odour Threshold	Not applicable
pH	2
<b>Boiling Point</b>	Not applicable
Melting Point	Not applicable
Freezing Point	-17°C
Flash Point	138°C
Flammability	Not applicable
Upper and Lower	Not applicable
<b>Exposure Limits</b>	
Vapour Pressure	> 44.80 mbarat 20°C (formic acid)
Vapour Density	Heavier than air.
Relative Density	Not applicable
Solubilities	Formic Acid miscible in water, other components non soluble.
Partition Coefficient:	Not applicable
Auto-ignition	349°C
Temperature	
Decomposition	Not applicable
Temperature	
Kinematic Viscosity	Not applicable
<b>Particle Characteristics</b>	Not applicable

# Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
<b>Conditions to Avoid</b> Heat, flame, other sources of ignition	
Incompatible Materials	Reacts with amines, alkalis, oxidizing agents and sulfuric acid.
<b>Hazardous Decomposition</b>	Not anticipated under normal or recommended handling and
Products	storage conditions Carbon dioxide and carbon monoxide may
	form when heated to decomposition.

# Section 11 Toxicological Information

# **Acute toxicity: Formic Acid**

Product Name: Formic Pro Issued by: NOD Apiary Products Ltd.

Oral Rat- LD<sub>50</sub>: 730 mg/kg

Inhalation Rat LC<sub>50</sub>: 15 g/m<sup>3</sup>/15 min

#### **Acute Effects:**

Swallowed	Harmful if swallowed.
Dermal	Not applicable.
Inhalation	Harmful if inhaled.
Eye	Causes serious eye damage.
Skin	Causes severe skin burns and eye damage.

# **Chronic Effects:**

Carcinogenicity	Not applicable.	
Reproductive	Not applicable.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	Not applicable.	

# Section 12. Ecotoxicological Information

HSNO Classes: 9.1D = Toxic to aquatic life.

9.3C = Harmful to terrestrial vertebrates.

Persistence and degradability	All components are biodegradable.
Bioaccumulation	Components do not bio-accumulate.
Mobility in Soil	No data available
Other adverse effects	No data available

# Section 13. Disposal Considerations

**Disposal Method:** Dispose of according to Local Regulations.

**Disposal methods to avoid:** Do not allow to enter waterways.

# Section 14 Transport Information

# This product is classified as a Dangerous Good for <u>Rail and Air</u> transport in NZ; NZS 5433:2012

Product meets the requirement for an exemption for Road transport under UN3244 Special Provision 218

Road and Rail Transport

UN No: Exempt

Class-primary Packing Group

Proper Shipping Name:

Air Transport

UN No: 3244 Class-primary 8 Packing Group II

Proper Shipping Name: SOLIDS CONTAINING CORROSIVE LIQUID, N.O.S

Marine Transport

UN No: 3244 Class-primary 8

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Packing Group II

Proper Shipping Name: SOLIDS CONTAINING CORROSIVE LIQUID, N.O.S

#### Section 15 Regulatory Information

EPA Approval Code: HSR100672

HSNO Classification: 6.1D (oral, inh), 8.1A, 8.2B, 8.3A, 9.1D, 9.3C

**HSNO Controls:** 

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L(8.2B)
Emergency Response Plan	1000L(8.2B)
Secondary Containment	1000L (8.2B)
Restriction of Use	Shall not be applied onto or into water.

#### Section 16 Other Information Glossary EC50 Median effective concentration. **EEL** Environmental Exposure Limit. **EPA Environmental Protection Authority HSNO** Hazardous Substances and New Organisms. Lethal concentration that will kill 50% of the test organisms inhaling or LC50 ingesting it. LD50 Lethal dose to kill 50% of test animals/organisms. Lower explosive level. LEL **OSHA** American Occupational Safety and Health Administration. Tolerable Exposure Limit. TEL TLV Threshold Limit Value-an responsible exposure limit set bv

authority.
UEL Upper Explosive Level

WES Upper Explosive Level Workplace Exposure Limit

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006. Disclaimer

This document has been issued by NOD Apiary Products Ltd. and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to NOD Apiary Products Ltd. or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While NOD Apiary Products Ltd. has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, NOD Apiary Products Ltd. accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person because of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, if further information is required.

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