



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Formic Pro**
Item Code:
Product Use: Acaricide, hive cleanser

Emergency Telephone: **CANUTEC: 613-996-6666 Canada**
CHEMTREC: 800-424-9300 United States

Supplier/Manufacturer: NOD Apiary Products Ltd.
Address: 374 Sidney Street,
Trenton, Ontario Canada K8V 2V2
Telephone: 1-866-483-2929 or 1-613-398-8422

Date of SDS Preparation 28 Novemeber 2023

Section 2. Hazards Identification

Pictograms



Toxic



Corrosive

Signal Word: DANGER

Hazard Code	Hazard Statement	GHS Category
H302	Harmful if swallowed.	Category 4
H332	Harmful if inhaled.	Category 4
H290	May be corrosive to metals.	Category 1
H314	Causes severe skin burns and eye damage.	Category 1B
H318	Causes serious eye damage.	Category 1
H401	Toxic to aquatic life.	Category 4
H433	Harmful to terrestrial vertebrates.	-

Prevention Code	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 + P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated 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 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove 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 and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult or if you feel unwell.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from combustion	If heated to decomposition, the following substances may be formed: carbon dioxide, carbon monoxide and smoke.

products	
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.

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
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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
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WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
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.*

Engineering Controls

Keep away from ignition sources. Keep water handy for eye wash and rinsing should skin contact occur. 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 Skin	Wear coveralls over a long-sleeved shirt, long pants, socks and shoes, acid 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 vapors. 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

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

Section 10. Stability and Reactivity

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

Section 11 Toxicological Information

Acute toxicity: Formic Acid
Oral Rat- LD₅₀: 730 mg/kg
Inhalation Rat LC₅₀: 15 g/m³/15 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 Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecological Information

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

Product meets the requirement for an exemption for Road transport under UN3244 "Limited Quantity". Product is classified as Dangerous Goods for Air and Marine transport.

Road and Rail Transport

UN No: Exempt
 Class-primary Limited Quantity
 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
 Packing Group II
 Proper Shipping Name: SOLIDS CONTAINING CORROSIVE LIQUID, N.O.S

Section 15 Regulatory Information

Registered as a Pesticide in the United States under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) - US EPA Registration Number: 75710-3

Section 16 Other Information**Glossary**

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.

LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

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