SAFETY DATA SHEET

Section 1 – Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name: ONGUARD PNP Pro Ready to Use Residual Liquid Insecticide
PMRA Registration No.: 32850
Product Description: PMRA Registered Pesticide

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s): Use product for its intended purpose as pesticide. See label.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Name: Ur-Can Inc.
Address: P.O.Box 80088 Appleby, Burlington ON L7L6B1
Website: www.urcan.ca

1.4 Emergency telephone number

Emergency Telephone: CHEMTREC: +1 (800) 424-9300 (within the US) or +1 (703) 527-3887 (outside the US)

Section 2 – Hazard(s) Identification

2.1. Classification of the substance or mixture

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Health	Environmental	Physical
Aspiration Toxicity (Category 1)	Not classified	Flammable Liquid (Category 2)
Specific Target Organ Toxicity Single Exposure - Narcotic Effects (Category 3)		

2.2. Label elements

Label Pictogram:

Signal Word: Danger

Hazard Statements	Precautionary Statements
H225: Highly flammable liquid and vapor	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
H304: May be fatal if swallowed and enters airways	P233: Keep container tightly closed
H336: May cause drowsiness or dizziness	P240: Ground and bond container and receiving equipment
	P241: use explosion-proof (electrical/ventilating/lighting) equipment
	P242: Use non-sparking tools
	P243: Take action to prevent static discharges
	P261: Avoid breathing dust/fume/gas/mist/vapours/spray
	P271: Use only outdoors or in a well-ventilated area
	P280: Wear protective gloves/protective clothing/eye protection/face

	protection/hearing protection
	P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor if you feel unwell
	P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).
	P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
	P312: Call a POISON CENTER/doctor if you feel unwell.
	P331: Do NOT induce vomiting
	P370+P378: In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
	P403+P233+P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
	P405: Store locked up
	P501: Dispose of contents/container in accordance with local/regional/national regulations

2.3. Other hazards

- This product is considered a hazardous mixture under Canada's Workplace Hazardous Materials Information System (WHMIS) 2015 legislation.

Section 3 – Composition / Information on Ingredients

Mixture

Chemical Name	CAS No.	% Weight *
Odourless mineral spirits (hydrotreated heavy naphtha)	64742-48-9	86.6
Isopropyl alcohol	67-63-0	12.5
MGK® 2179	Mixture	0.8
Petroleum distillates	64742-47-8	25-50
N-Octyl bicycloheptene dicarboximide	113-48-4	31.25
Permethrin	52645-53-1	25
Lavender oil	8000-28-0	0.1

*May contain ingredients not listed in the table that are non-hazardous and/or present at <0.1%

Section 4 – First Aid Measures

4.1 Description of first aid measures

Eye contact: Remove contact lenses, if worn, and flush with plenty of water for at least 15 minutes. Seek medical attention if symptoms occur and persist.

Skin contact: If on skin or hair take off immediately all contaminated clothing. Rinse skin with water (or shower). Seek medical attention if symptoms occur and persist.

Inhalation: Immediately remove person to fresh air and keep comfortable for breathing. If not breathing or breathing is irregular, give artificial respiration or oxygen. Call a poison center/doctor if you feel unwell.

Ingestion: If swallowed immediately call a poison center/doctor. Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered forward to reduce the risk of aspiration.

4.2 Most important symptoms and effects, both acute and delayed

- Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea, or narcotic effects. Direct eye contact may cause temporary redness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May have laxative effects. Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

- Aspiration hazard. Contains petroleum distillates – vomiting may cause aspiration pneumonia.

Section 5 – Fire Fighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media: Do not use water jet as this may spread the fire.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards: Flammable liquid and vapour. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapour can travel considerable distance and flashback to a source of ignition. Vapours are heavier than air and collect in confined and low-lying areas. Decomposition products of combustion may include but are not limited to: carbon dioxide, carbon monoxide, nitrogen oxides, and other hazardous gases. See also Section 10 - Stability and Reactivity.

5.3 Advice for firefighters

- Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Use standard firefighting procedures and consider the hazards of other materials involved in the fire. Evacuate personnel to safe areas. Move containers from fire area if safe to do so.

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment (PPE) and emergency procedures

Personal Precautions: Observe PPE advice in Section 8 – Exposure Controls/Personal Protection

Emergency Procedures: Not available

6.2 Environmental precautions:

- Avoid dispersal of spilled material. Collect spillage. Prevent entry and contact with soil, drains, sewers, and waterways. Inform relevant local/regional/national/international authorities.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures: Contain spill if safe to do so. Ventilate the area. Do not let waste enter the environment. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal. Dispose of contents/container in accordance with local/regional/national/international regulations.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 – Disposal Considerations.

Section 7– Handling and Storage

7.1 Precautions for safe handling

- Use only outdoors or in a well-ventilated location. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothing. Keep away from heat and open flames. - No smoking. Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting/equipment. Take precautionary measures against static discharges. Bond and ground transfer containers and equipment to avoid static accumulation.
- Refer to Section 8.3 - Exposure Controls/Personal Protection

7.2 Conditions for safe storage, including any incompatibilities Storage

- Container must be properly labeled. Keep container tightly closed and store locked up in a cool, dry, well-ventilated area.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8– Exposure Controls / Personal Protection

8.1 Control Parameters:

No exposure limits available.

8.2 Exposure Controls:

Appropriate engineering controls

- Provide exhaust ventilation or other engineering controls to limit airborne concentration of vapours. An eyewash station and safety shower should be made available in the immediate working area. Use explosion-proof electrical and ventilating equipment.

8.3 Personal Protective Equipment

Respiratory: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use an approved dust respirator such as a High Efficiency Particulate Air (HEPA) respirator and filter cartridge authorized by regulatory standards.

Eyes/Face: Wear eye/face protection. Wear safety glasses with side shields. If necessary, refer to appropriate regulatory standards.

Hands/Skin: Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Body: Wear protective clothing to prevent skin contact, such as coveralls or long-sleeved shirt, long pants, and shoes and socks.

Thermal Hazards: None known

Environmental Exposure Controls: Not available

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Liquid

Color: Colorless

Odor: Not available

Odor threshold: Not available

pH: Not available

Melting point: Not available

Boiling point: Not available
Flashpoint: Not available
Evaporation rate: Not available
Flammability: Highly flammable
Upper/lower flammability limits: Not available
Vapor pressure: Not available
Vapor density: Not available
Relative density: Not available
Solubility in water: Not available
Solubility in other solvents: Not available
Partition coefficient (log Kow): Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not available
Explosive properties: Not available
Oxidizing properties: Not available

9.2 Other information

No further information available

Section 10 – Stability and Reactivity

10.1 Reactivity

- This product is stable and non-reactive under normal handling and storage conditions.

10.2 Chemical stability

- This product is stable under normal handling and storage conditions.

10.3 Possibility of hazardous reactions

- Hazardous polymerization does not occur

10.4 Conditions to avoid

- Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Avoid heat, sparks, open flames, and other ignition sources.

10.5 Incompatible materials

- Strong acids, oxidizing agents, reducing agents.

10.6 Hazardous decomposition products

- Carbon dioxide, carbon monoxide, nitrogen oxides, and other hazardous gases.

Section 11 – Toxicological Information

Likely routes of exposure: Skin and eye contact, inhalation
Potential signs and symptoms: Inhalation of high concentrations may cause dizziness, disorientation, in coordination, narcosis, nausea or narcotic effects. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration may cause pulmonary oedema and pneumonitis.

Acute oral toxicity:	Rat LD50 >7000 mg/kg for hydrotreated heavy naphtha (CAS No. 64742-48-9); based on available data the classification criteria are not met
Acute dermal toxicity:	Rabbit LD50 >2000 mg/kg (no mortality) for hydrotreated heavy naphtha (CAS No. 64742-48-9); based on available data the classification criteria are not met
Acute inhalation toxicity:	Rat LC50 >5.04 mg/l (4-hours) for hydrotreated heavy naphtha (CAS No. 64742-48-9); based on available data the classification criteria are not met
Skin corrosion/irritation:	Based on available data the classification criteria are not met

Serious eye damage/irritation:	Based on available data the classification criteria are not met
Respiratory or skin sensitization:	Based on available data the classification criteria are not met
Mutagenicity:	Based on available data the classification criteria are not met
Carcinogenicity:	Permethrin (CAS No. 52645-53-1) and isopropyl alcohol (CAS No. 67-63-0) are classified as Group 3 (not classifiable as to its carcinogenicity to humans). No other components in this product are classified with respect to carcinogenicity by the IARC, NTP, and ACGIH.
Reproductive Toxicity:	Based on available data the classification criteria are not met
Specific target organ toxicity (single exposure):	Based on available data the classification criteria are not met
Specific target organ toxicity (repeated exposure):	Based on available data the classification criteria are not met
Aspiration hazard:	Aspiration hazard if swallowed (Category 1)

Section 12 – Ecological Information

12.1 Toxicity

- This product is not considered toxic to aquatic organisms. The primary component, hydrotreated heavy naphtha, is not classified for the environment because it does not demonstrate acute fish and invertebrate toxicity, and alga toxicity at loadings up to 1000 mg/L. In addition, it is also readily biodegradable.

12.2 Persistence and degradability

- The primary component, hydrotreated heavy naphtha, is readily biodegradable.

12.3 Bioaccumulative potential

- No data available

12.4 Mobility in Soil

- No data available

12.5 Results of PBT and vPvB assessment

- No data available

12.6 Other adverse effects

- No further data available

References:

ECHA 2019. Registered Substances Database: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics. Available online: https://echa.europa.eu/registration-dossier/-/registered-dossier/15780/6/1

Section 13 – Disposal Considerations

13.1 Waste treatment methods

Preparing wastes for disposal: Use product for its intended purpose or recycle if possible. Waste disposal must be in accordance with local, regional, national, and/or international regulations. See also Section 7.

Section 14 – Transport Information

This product is not regulated as dangerous goods for transport under Canada's Transportation of Dangerous Goods Regulations including Amendment *SOR/2019-101*. An exemption applies as per *1.33(c), SOR/2008-34* regarding small means of containment for Class 3, Flammable Liquids.

	TDG	IMO/IMDG	ICAO/IATA
14.1 UN number	Not applicable	Not applicable	Not applicable
14.2 UN proper shipping name	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es):	Not applicable	Not applicable	Not applicable
14.4 Packing group	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards	None	None	None
14.6 Special precautions for user	None	None	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

Section 15 – Regulatory Information

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

United States

Federal Regulations:

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):
No components in this product are listed under CERCLA.
Clean Water Act (CWA): No components in this product are listed as toxic pollutants.
Clean Air Act (CAA): No components in this product are listed as hazardous air pollutants.
Superfund Amendments and Reauthorization Act (SARA) Title III Information:
SARA 302 Components: No components in this product are subject to reporting requirements of S.302.
SARA 311/312 Hazards: Acute Health Hazard
SARA 313 Components: This product contains isopropyl alcohol (listed as isopropyl alcohol [mfg strong acid process]; CAS No. 67-63-0) and permethrin (listed as 3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropane carboxylic acid, (3-phenoxy-phenyl)methyl ester; CAS No. 52645-53-1) which are subject to reporting level established by S313. No other components in this product are subject.
Toxic Substances Control Act (TSCA): This product contains hydrotreated heavy naphtha (CAS No. 64742-48-9), isopropyl alcohol (CAS No. 67-63-0), petroleum distillates (CAS No. 64742-47-8), and lavender oil (CAS No. 8000-28-0) which are listed on the non-confidential TSCA inventory. N-Octyl bicycloheptene dicarboximide (CAS No. 113-48-4) and permethrin (CAS No. 52645-53-1) are not listed on the non-confidential TSCA inventory.

State Regulations:

California: No components in this product are listed under Proposition 65 (CA Health & Safety Code Section 25249.5).
Massachusetts: This product contains isopropyl alcohol (CAS No. 67-63-0) and permethrin (CAS No. 52645-63-1) which are listed under the Right to Know Act (RTK). No other components are listed under the RTK.
New Jersey: This product contains isopropyl alcohol (CAS No. 67-63-0) and permethrin (CAS No. 52645-63-1) which are listed under the RTK. No other components in this product are listed under the RTK.
Pennsylvania: This product contains isopropyl alcohol (CAS No. 67-63-0) which is listed under the RTK. No other components in this product are listed under the RTK.

Canada

Canadian Environmental Protection Act (CEPA): No components in this product are listed on the Priority Substances List. This product contains hydrotreated heavy naphtha (CAS No. 64742-48-9), isopropyl alcohol (CAS No. 67-63-0), petroleum distillates (CAS No. 64742-47-8), N-octyl bicycloheptene dicarboximide (CAS No. 113-48-4), and lavender oil (CAS No. 8000-28-0) which are listed on the Domestic Substances List (DSL). No other components were found on either list.
National Pollutant Release Inventory (NPRI): Hydrotreated heavy naphtha (CAS No. 64742-48-9), isopropyl alcohol

(CAS No. 67-63-0), petroleum distillates (CAS No. 64742-47-8) are subject to reporting requirements. No other components in this product are subject to reporting requirements.

International:

IARC: Permethrin (CAS No. 52645-53-1) and isopropyl alcohol (CAS No. 67-63-0) are classified as Group 3 (not classifiable as to its carcinogenicity to humans). No other components in this product are classified with respect to potential carcinogenicity.

15.2 Chemical Safety Assessment

- Not available for the components in this product

Section 16 – Other Information

List of acronyms and abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists	LC50: Lethal Concentration, 50%
ADR: International Carriage of Dangerous Goods by Road	LD50: Lethal Dose, 50%
ADNR: Regulation for the carriage of dangerous substances on the Rhine	MARPOL: Maritime Pollution
CAA: Clean Air Act	NTP: National Toxicology Program
CAS: Chemical Abstract Service Number	PBT: Persistent, Bioaccumulative and Toxic
CERCLA: Comprehensive Environmental Response and Liability Act	PPE: Personal Protective Equipment
CWA: Clean Water Act	RID: International rule for transport of dangerous
DSL: Domestic Substances List	RTK: Right to Know
ECHA: European Chemicals Agency	REACH: Registration, Evaluation, Authorization and Restriction of Chemicals
EPCRA: Emergency Planning and Community Right To Know Act	SARA: Superfund Amendment and Reauthorization Act
GHS: Global Harmonized System	SCBA: Self-contained Breathing Apparatus
HEPA: High Efficiency Particulate Air	SDS: Safety Data Sheet
HSDB: Hazardous Substances Data Bank	TLV: Threshold Limit Value
IBC: International Bulk Chemical	TSCA: Toxic Substances Control Act
IARC: International Agency for Research on Cancer	TWA: Time Weighted Average
IATA: International Air Transport Association	UN: United Nations
ICAO: International Civil Aviation Organization	vPvB: very Persistent, very Bioaccumulative
IMDG: International Maritime Dangerous Goods	WHMIS: Workplace Hazardous Materials Information System
IMO: International Maritime Organization	

References:

- European Chemicals Agency (ECHA) Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
- European Chemicals Agency Classification and Labelling (C&L) Inventory Database
- United States National Toxicology Program (NTP)
- United States National Library of Medicine's Hazardous Substances Data Bank (HSDB)

Disclaimer:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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