

## SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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### Ramik® Liquid Bait

Revision 1  
Revision date 2024-04-24

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

##### 1.1. Product identifier

Product name	Ramik® Liquid Bait
Product code	116397
Registration No.	61282-104.

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

Description	Rodenticide.
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##### 1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Lesher Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com

##### 1.4. Emergency telephone number

	24 hours: Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)
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##### Further information


Manufactured By:	HACCO, Inc. 110 Hopkins Dr. Randolph, WI 53956-1316 U.S.A.  HACCO, Inc. is a wholly-owned subsidiary of Neogen Corporation.
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#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

2.1.2. Classification - GHS	Repr. 1B: H360D;
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##### 2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Repr. 1B: H360D - May damage the unborn child.

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## 2.2. Label elements

Precautionary Statement: Prevention	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P308+P313 - IF exposed or concerned: Get medical advice/attention.
Precautionary Statement: Storage	P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations

## 2.3. Other hazards

Other hazards	Read the entire label and follow all use directions, restrictions, and precautions.
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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH No.	Conc. (%w/w)	Classification
N-Methyl-2-pyrrolidone	606-021-00-7	872-50-4	212-828-1		1 - <5%	Repr. 1B: H360D; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315;
Diphacinone sodium salt		42721-99-3	255-918-6		0.082%	Acute Tox. 2: H300+H310+H330;

#### Description

	Concentrations listed may not represent exact product specifications.
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#### Further information

	Full text of Hazard Statements listed in this Section is provided in Section 16.
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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Call a poison control center or doctor for treatment advice.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.
Skin contact	Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

Inhalation	May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	May damage fertility or the unborn child . If swallowed, this material may reduce the clotting ability of the blood and cause bleeding.

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

	Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist.
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## 4.3. Indication of any immediate medical attention and special treatment needed

	If medical advice is needed, have product container or label at hand.
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## Further information

<b>NOTE TO PHYSICIAN OR VETERINARIAN</b>	Refer to product label and/or package insert for additional information. If swallowed, this material may reduce the clotting ability of the blood and cause bleeding.
	For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), administer Vitamin K1.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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### 5.2. Special hazards arising from the substance or mixture

	Contains substance(s) which are hazardous to the environment. Do not allow undiluted product to be released to ground water, water course or sewage system.
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### 5.3. Advice for firefighters

	Do not breathe vapor or spray mist. Wear self-contained breathing apparatus and chemical-protective clothing.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

	In the case of cleanup following a spill, wear protective clothing and appropriate equipment to prevent exposure of skin and eyes and to prevent ingestion or inhalation. Ensure adequate ventilation of the working area. Do not breathe gas/fumes/vapor/spray. Avoid prolonged or repeated exposure.
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### 6.2. Environmental precautions

	Prevent further spillage if safe. Clean area thoroughly with detergent. Do not flush into surface water. Do not let product contaminate subsoil.
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### 6.3. Methods and material for containment and cleaning up

	Absorb spillage to prevent material damage. Clean area thoroughly with detergent. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not empty into drains; dispose of this material and its container in a safe way. Dispose of in compliance with all label instructions.
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### 6.4. Reference to other sections

	See Section(s) 2, 8, and 13 for further information.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Read the entire label and follow all use directions, restrictions, and precautions. Use as appropriate: Protective clothing.
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### 7.2. Conditions for safe storage, including any incompatibilities

	Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions.
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### 7.3. Specific end use(s)

	See Section(s) 1.2 for further information.
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## Further information

Refer to product label and/or package insert for additional information.

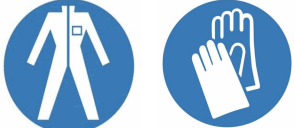
## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limit Values

Sucrose	ACGIH TLV TWA: 10 mg/m <sup>3</sup>	ACGIH TLV STEL: -
	Notations: A4	OSHA PEL 8hr TWA ppm: -
	OSHA PEL 8hr TWA mg m3: 15	Skin Designation: -
	NIOSH REL 10hr TWA ppm:	NIOSH REL 10hr TWA mg m3:
	NIOSH REL 15 min ST ppm:	NIOSH REL 15 min ST mg m3:

### 8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Use as appropriate: Protective equipment.
Eye / face protection	Wear eye/face protection.
Skin protection - Hand protection	Wear: Chemical resistant gloves. Wash the outside of gloves before removing them. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
Skin protection - Other	Wear: Long-sleeved shirt and long pants, chemical-resistant footwear plus socks.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Occupational exposure controls	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product.

## Further information

Refer to product label for additional PPE requirements and recommendations. Follow label instructions.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

<b>State</b>	Liquid
<b>Color</b>	Yellow
<b>Odor</b>	Odorless
<b>Flash point</b>	Not applicable.
<b>pH</b>	7.28
<b>Explosive properties</b>	Not applicable.
<b>Odor threshold</b>	No data available
<b>Autoignition temperature</b>	Not applicable.
<b>Freezing Point</b>	-5 °C
<b>Flammability limits</b>	Not applicable.
<b>Initial boiling point</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Solubility</b>	Soluble in water
<b>Melting point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Partition coefficient (P)</b>	No data available
<b>Relative Vapour Density</b>	No data available
<b>Oxidizing properties</b>	No data available

## 9.2. Other information

<b>Specific gravity</b>	1.01
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## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	Stable under normal conditions.
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## 10.2. Chemical stability

	Stable under normal conditions.
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## 10.3. Possibility of hazardous reactions

	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
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## 10.4. Conditions to avoid

	Keep away from extreme temperatures.
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## 10.5. Incompatible materials

	No data available.
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## 10.6. Hazardous decomposition products

	Carbon oxides.
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## SECTION 11: Toxicological information

## 11.1 Information on hazard classes

<b>Acute toxicity</b>	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.
<b>Skin corrosion/irritation</b>	May cause irritation to skin.
<b>Serious eye damage/irritation</b>	May cause irritation to eyes.
<b>Respiratory or skin sensitization</b>	May cause allergic reactions in susceptible people.
<b>Germ cell mutagenicity</b>	No mutagenic effects reported.

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## 11.1 Information on hazard classes

<b>Carcinogenicity</b>	No components at >0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. No components at >0.01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. No components at >0.01% are listed in the International Agency for Research on Cancer (IARC) Monographs. Not listed in the OSHA standard 1910.1003 Carcinogens.
<b>Reproductive toxicity</b>	Toxic for reproduction category 1.  May damage fertility or the unborn child .
<b>STOT-single exposure</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>STOT-repeated exposure</b>	If swallowed, this material may reduce the clotting ability of the blood and cause bleeding.
<b>Aspiration hazard</b>	No Significant Hazard.
<b>Repeated or prolonged exposure</b>	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.

### 11.1.2. Mixtures

	See Section(s) 3 for further information.
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### 11.1.3. Hazard Information

	See Section(s) 2 and 3 for further information.
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### 11.1.4. Toxicological information

<b>N-Methyl-2-pyrrolidone</b>	<b>Dermal Rat LD50:</b> 5000	<b>Oral Rat LD50:</b> 3914
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### 11.1.5. Hazard Class

	See Section(s) 2 and 14 for further information.
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### 11.1.6. Classification Criteria

	Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.
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### 11.1.7. Information on likely routes of exposure

	Ingestion. Skin contact. Eye contact. Inhalation.
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### 11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

	See Section(s) 4.2 for further information.
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### 11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure

	See Section(s) 4.2 for further information.
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### 11.1.10. Interactive effects

	No data available.
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### 11.1.11. Absence of specific data

	<1% of this mixture consists of ingredients of unknown acute toxicity.
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### 11.1.12. Mixture versus substance information

	See Section(s) 3 for further information.
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### 11.1.13. Other information

	No data available.
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## SECTION 12: Ecological information

### 12.1. Toxicity

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## 12.1. Toxicity

N-Methyl-2-pyrrolidone	Fish LC50/96h: 4000.000000 mg/l
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## 12.2. Persistence and degradability

	No data is available on this product.
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## 12.3. Bioaccumulative potential

	No data is available on this product.
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## 12.4. Mobility in soil

	No data is available on this product.
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## 12.5. Results of PBT and vPvB assessment

	No data is available on this product.
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## 12.7 Other adverse effects

	Very toxic to birds, mammals, fish.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

	Dispose of as special waste in compliance with local and national regulations. Follow label instructions.
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### Disposal methods

	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.
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### Disposal of packaging

	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
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### Further information

	Refer to product label and/or package insert for additional information.
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## SECTION 14: Transport information

### 14.1. UN number

	The product is not classified as dangerous for carriage.
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### 14.2. UN proper shipping name

	The product is not classified as dangerous for carriage.
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### 14.3. Transport hazard class(es)

	The product is not classified as dangerous for carriage.
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### 14.4. Packing group

	The product is not classified as dangerous for carriage.
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### 14.5. Environmental hazards

	The product is not classified as dangerous for carriage.
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### 14.6. Special precautions for user

	The product is not classified as dangerous for carriage.
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### 14.7 Maritime Transport in bulk according to IMO instruments

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## 14.7 Maritime Transport in bulk according to IMO instruments

The product is not classified as dangerous for carriage.

## SECTION 15: Regulatory information

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

<b>Regulations</b>	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.
<b>Chemical Inventories/Right-to-Know Lists:</b>	Contact SDS@neogen.com for additional information. Please specify country or region with your request.  **California residents please note** WARNING: This product can expose you to chemicals, including N-Methyl-2-pyrrolidone, CAS No. 872-50-4, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .

### Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
N-Methyl-2-pyrrolidone (2-Pyrrolidinone, 1-methyl-)	Y	N	Y 1.0	Y	N	N	N	N	N
Sucrose (.alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl)	Y	N	N	N	N	N	N	N	N

### Further information

<b>Signal Word</b>	This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
<b>Label Precautions</b>	CAUTION.  Hazards to humans and domestic animals.  Harmful if inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Keep away from children, domestic animals, and pets. Avoid contact during pregnancy/while nursing. All handlers (including applicators) must wear long-sleeved shirt and long pants, and shoes plus socks.

## SECTION 16: Other information

### Other information

<b>Revision</b>	This document differs from the previous version in the following areas: 9 - 9.1. Information on basic physical and chemical properties (Freezing Point).
<b>Acronyms</b>	ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR). CAS No.: Chemical Abstracts Service. GHS: Globally Harmonized System. HCS 2012: Hazard Communication Standard (2012 revision). IATA: International Air Transport Association. ICAO: International Civil Aviation Organization. IMDG: International Maritime Dangerous Goods. LD: Lethal dose. OEL: Occupational exposure limit.



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## Other information

<b>Text of Hazard Statements in Section 3</b>	<p>OSHA: U.S. Occupational Safety and Health Administration.          PEL: Permissible Exposure Limit.          REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.          SVHC: Substance of very high concern.          US DOT: United States Department of Transportation.          VOC: Volatile Organic Compound.          WEL: Workplace Exposure Limit.</p>
	<p>Skin Irrit. 2: H315 - Causes skin irritation.          Eye Irrit. 2: H319 - Causes serious eye irritation.          STOT SE 3: H335 - May cause respiratory irritation.          Repr. 1B: H360D - May damage the unborn child.          Acute Tox. 2: H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled</p>

## Further information

	<p>DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.</p> <p>Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.</p>
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