



2% LIQUID STRYCHNINE CONCENTRATE

SECTION 1: IDENTIFICATION	
Product Trade Name:	2% Liquid Strychnine Concentrate
Recommended Use:	Rodenticide for Richardson's Ground Squirrel
Restrictions on Use:	For Food Plant and Other Industrial Use Only For Use in Non-potable Water Only PRP #28751
Manufacturer Name:	Agromax Distributors Inc.
Manufacturer Address:	1305 Halifax Street, Regina, SK, S4R 1T9
Manufacturer Phone Number:	306-347-4170
Email Address of Competent Person Responsible for the SDS:	1-877-478-1-3112-2-1-800-1
Emergency Phone Number/ 24-Hour Number:	For Transportation Emergencies: Canutec 1-800-461-4614

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SECTION 2: HAZARD IDENTIFICATION	
Physical Hazards:	NONE
Health Hazards:	TOXIC IF SWALLOWED – Category 3
Symbol:	
Signal word:	DANGER
Hazard Statement:	H301 Toxic if swallowed.
PRECAUTIONARY STATEMENTS	
Prevention:	P264 Wash hands and any affected area thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
Responses:	P301 + P316 IF SWALLOWED: Get emergency medical help immediately.
	P321 Specific treatment (see supplement first aid information on this label).
	P330 Rinse mouth.
Storage:	P405 Store locked up.
Disposal:	P501 Dispose of contents/ container to an approved waste disposal plant.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	Approx. Wt.%	CAS Number
Strychnine	2	57-24-9

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SECTION 4: FIRST-AID MEASURES	
General Information:	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
Inhalation:	Immediately remove the affected victim to fresh air. Obtain medical attention immediately.
Skin Contact:	Remove any contaminated clothing. Flush body and clothes with large amount of water, continue flushing with water until advised to stop by the poison centre or doctor. Obtain medical attention immediately.
Eye Contact:	Immediately flush with warm running water for at least 15 minutes, holding eyelids open during flushing. Remove contact lenses, if present and easy to do. If irritation persists, repeat flushing, and obtain medical attention immediately.
Ingestion:	If swallowed, immediately seek medical attention, without delay. Contact a poison centre or a doctor. Urgent hospital treatment is likely to be needed. Do not induce vomiting. Spontaneous vomiting and convulsions may occur. Activated charcoal should be administered immediately to minimize gastrointestinal absorption. Administer charcoal in a slurry (aqueous or mixed with saline cathartic or sorbitol). The FDA suggests 240 mL of diluent/ 50 gram of charcoal. Usual charcoal dose is 50-100 grams in adults. Never give anything by mouth to an unconscious person.
Self-Protection of the First Aider:	Remove all sources of ignition. Ensure that first aid personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
Most Important Symptoms/ Effects, Acute and Delayed:	Ingestion: Initially there might be tremors, stiffness and twitching of the face and legs, followed by apprehension, fear, nausea and a feeling of identity loss. Painful convulsions. The body assumes a characteristic spastic posture with an arched back, extended limbs and the feet turned inwards. The jaw is rigidly shut and face muscles are contracted in a characteristic smile. The contraction of the muscles for breathing and spasms of trunk muscles causes breathing to stop, leading to death. Strychnine is absorbed and distributed to various parts of the body within a very short period. Inhalation: No immediate danger but repeated minor exposures with only mild symptoms may have serious cumulative poisoning effect. Eyes and skin: No immediate danger but repeated minor exposures with only mild symptoms may have serious cumulative poisoning effect.
Get medical attention immediately.	

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SECTION 5: FIRE-FIGHTING MEASURES	
Suitable Extinguishing Media:	Water fog, alcohol foam, or dry chemical.
Unsuitable Extinguishing Media:	None known.
Flammability:	Not flammable. Not combustible.
Flash Point:	Not flammable. Not combustible.
Special Firefighting Procedures:	Wear NIOSH/MSHA approved, self-contained breathing apparatus for firefighting situation. Use water spray to cool all nearby fire exposed surfaces.
Unusual Fire/ Explosion Hazards:	None known.
Hazardous Decomposition Products:	Carbon oxides, nitrogen oxides, sulphur oxides and toxic fumes when heated to decomposition.

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SECTION 6: ACCIDENTAL RELEASE MEASURES	
Environmental Protection Precautions:	Do not release to the environment or water source.
Steps to be Taken in Case Material is Released or Spilled:	Wear protective equipment. Absorb into inert mineral absorbent ("floor dry"). Wash Down floor. Flush area with water if appropriate and neutralize with diluted weak acid solution such as citric acid solution. Keep material away from sewers. Reuse if possible, otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.

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SECTION 7: HANDLING AND STORAGE	
Precautions to be Taken in Handling and Storage:	Use good industrial hygiene. Do not get in eyes, on skin or on clothing. Avoid breathing vapour/ mist. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Keep out of reach of children. Store at temperatures below 30°C and above 5°C.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION					
EXPOSURE LIMITS:					
OSHA (PEL): Not available		ACGIH TLV: Not available		Other exposure limit: Not available	
Strychnine					
CAS No.:	57-24-9				
Regulation:	NIOSH		OSHA	ACGIH	OHSR
Type of Listing:	REL	IDLH	PEL-TWA	TLV-STEL	TLV-STEL
Value:	0.15 mg/m ³	3 mg/m ³	0.15 mg/m ³	0.15 mg/m ³	0.15 mg/m ³
INDIVIDUAL PROTECTION MEASURES / PERSONAL PROTECTIVE EQUIPMENT					

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION	
Appropriate Engineering Controls:	Good general ventilation.
Skin Protection:	Hand Protection: Non-permeable gloves (rubber, nitrile) recommended. Other Skin Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
Eye and Face Protection:	Safety glasses or chemical goggles. Face shield if splashing hazard exists.
Respiratory Protection:	Respirator should be selected based on the task being performed and the risks involved. In case of insufficient ventilation, wear suitable respiratory equipment (filter type P2).
Other Protective Equipment:	Eye wash, safety shower and full protective clothing recommended in the immediate work area.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Pink liquid.
Odour:	Slight anise odour.
Odour threshold:	Not available.
pH:	8 - 9
Melting point/Freezing point:	Not available.
Initial boiling point and boiling range:	100 °C approximate.
Flash Point:	>100°C
Evaporation Rate (Water=1):	Not available.
Flammability:	Not flammable.
Upper/Lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density/Specific gravity (Water = 1):	1.02 @ 20°C
Solubility(ies):	Soluble in water
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	Not flammable
Decomposition temperature:	Not available.
Viscosity:	Not available.
VOCs%:	Not available.

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SECTION 10: STABILITY AND REACTIVITY	
Reactivity:	Not available.
Chemical stability:	Stable under normal storage conditions.
Possibility of hazardous reactions:	Not available.
Conditions to avoid:	Temperatures above 30°C and below 5°C. Keep away from food, drink, and animal feeding stuffs.
Incompatibility:	Strong oxidizing agents, alkali hydroxides, bromides, carbonates, iodides.
Hazardous Decomposition Products:	Carbon oxides, nitrogen oxides, sulphur oxides and toxic fumes when heated to decomposition.

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SECTION 11: TOXICOLOGICAL INFORMATION	
Likely routes of exposure:	Skin contact, skin absorption, eye contact, inhalation, ingestion.
Symptoms:	EYES AND SKIN CONTACT: No immediate danger but repeated minor exposures with only mild symptoms may have serious cumulative poisoning effect. Fatal if absorbed through eyes.
	INHALATION: No immediate danger but repeated minor exposures with only mild symptoms may have serious cumulative poisoning effect. May be fatal if dust treated bait is inhaled.
	INGESTION: May be fatal if swallowed. May cause irritation of the digestive tract. May cause liver and kidney damage. May cause central nervous system effects and/or neurological effects. Effects may be delayed. May cause convulsions, increased blood pressure, muscle spasms, and possible paralysis.
Acute Toxicity Estimates:	LD₅₀ Oral ATE = 150 mg/kg 0% of the mixture consists of ingredient(s) of unknown acute oral toxicity.
	LD₅₀ Dermal ATE > 2000 mg/kg 0% of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
	LD₅₀ Inhalation ATE (vapours) = 27.5 mg/L 0% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity.

SECTION 11: TOXICOLOGICAL INFORMATION

Skin Sensitization:	Data available on components indicates no potential skin sensitization.
Germinal Cell Mutagenicity:	Data available on components indicates no potential germinal cell mutagenicity.
Reproductive Toxicity:	Data available on components indicates no potential reproductive toxicity.
Carcinogenicity:	Data available on components indicates no potential carcinogenicity.
Aspiration Hazard:	Data available on components indicates no potential aspiration hazard.
STOT-SE:	Data available on components indicates no potential STOT-SE hazard.
STOT-RE:	Data available on components indicates no potential STOT-RE hazard.

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity to Fresh Water Algae:	Strychnine (CAS# 57-24-9): Acute toxic.
Toxicity to Fish Species:	Strychnine (CAS# 57-24-9): Acute toxic.
Toxicity to Aquatic Invertebrates:	Strychnine (CAS# 57-24-9): Acute toxic.
Persistence and degradability:	Not available.
Bioaccumulation:	Not available.
Inherently Toxic to the Environment:	Not available.

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SECTION 13: DISPOSAL CONSIDERATIONS

Recommended Waste Disposal Methods:	Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.
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SECTION 14: TRANSPORT INFORMATION

Canadian TDG UN Number:	UN 2902
UN Proper Shipping Name:	Pesticide, Liquid, Toxic, N.O.S.
Transport Hazard Class(es):	Class 6.1
Packing Group:	Packing Group III
Environmental Hazards:	Environmentally Hazardous Substance

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SECTION 14: TRANSPORT INFORMATION	
Special Precautions for User:	Not available.
Additional Information:	Limited Quantity – 0.25 Litre container

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SECTION 15: REGULATORY INFORMATION			
Inventory	DSL/ NDSL	NPRI	TSCA
Ingredients			
Strychnine (CAS# 57-24-9)	Listed on the DSL	Not listed	Listed, Active

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SECTION 16: OTHER INFORMATION	
ACRONYM LIST	
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute Toxicity Estimate
C	Ceiling Limit – The maximum exposure limit
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations
DSL/NDSL	Domestic Substances List/ Non-domestic Substance List
EC ₅₀	Half maximal effective concentration
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health
iT _E	Inherently Toxic to the Environment
LC ₅₀	Lethal concentration, 50%
LD ₅₀	Lethal dose, 50%
MSHA	Mine Safety and Health Administration
N/A	Not Applicable
NIOSH	The National Institute for Occupational Safety and Health
N.O.S.	Not Otherwise Specified
NPRI	National Pollutant Release Inventory
NTP	National Toxicology Program
OHSR	Occupational Health & Safety Regulation
OSHA	Occupational Safety and Health Administration
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Limit

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SECTION 16: OTHER INFORMATION	
PNOC	Particulates not otherwise classified
PMCC	Pensky-Martens Closed Cup
P_{ow}	Partition Coefficient Octanol: Water
REL	Recommended Exposure Limit
SDS	Safety Data Sheets
STEL	Short-Term Exposure Limit
STOT – SE	Specific Target Organ Toxicity – Single Exposure
STOT – RE	Specific Target Organ Toxicity – Repeated Exposure
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act Chemical Substance
TWA	Time-Weighted Average
UN	United Nations
VOCs	Volatile Organic Compounds
WEL	Workplace Exposure Limit
WEEL	Workplace Environmental Exposure Limit
WHMIS	Workplace Hazardous Materials Information System

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It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. Agromax will accept no liability for damages or loss incurred from the improper handling and use of this product.

The information provided in the Safety Data Sheet has been obtained from current sources and is believed to be reliable.