

MALATHION 8 AQUAMUL

SUPERSEDES: 05/24/2016

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 11/19/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name MALATHION 8 AQUAMUL

Other means of identification

Product Code PST-00179
UN/ID no UN3082
Synonyms None
Registration Number(s) 34704-474

Recommended use of the chemical and restrictions on use

Recommended Use Insecticide.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address LOVELAND PRODUCTS, INC. P.O. Box 1286

Greeley, CO 80632-1286

Emergency telephone number

Company Phone Number Emergency Telephone 1-888-LPI-CUST (574-2878) Chemtrec 1-800-424-9300

Medical Emergencies: 1-866-944-8565

US regulations require reporting spills of this material that could reach any surface waters. The toll-free phone number for the US Coast Guard National Response Center is

1-800-424-8802

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 4 - (H312)
Skin sensitization	Category 1 - (H317)
Germ cell mutagenicity	Category 1B - (H340)
Carcinogenicity	Category 1B - (H350)
Flammable liquids	Category 4 - (H227)

Label elements



Signal word DANGER

Hazard statements H317 - May cause an allergic skin reaction

H340 - May cause genetic defects

H350 - May cause cancer



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H227 - Combustible liquid

Precautionary Statements -

Prevention

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P281 - Use personal protective equipment as required

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear protective gloves

Precautionary Statements -

Response

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P330 - Rinse mouth

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

Precautionary Statements -

Storage

P405 - Store locked up

Precautionary Statements -

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	CAS No	Weight-%	GHS Classification	Trade
				Secret
Malathion	121-75-5	60 - 100	Acute Tox. 4 (H302) Skin Sens. 1 (H317)	*
			Aquatic Acute 1 (H400)	
			Aquatic Chronic 1 (H410)	

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

OSHA Hazard Communication 29 CFR 1910.1200



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4. FIRST AID MEASURES

Description of first aid measures

General advice Get medical attention if symptoms occur.

Eye contact Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical

attention. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing

eye. Call a poison control center or doctor for treatment advice.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call a poison control center or doctor for treatment advice.

Inhalation Remove to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor

for treatment advice.

Ingestion Call a poison control center or doctor for treatment advice. Have person sip a glass of water

if able to swallow. Do NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person.

Self-protection of the first aiderUse personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Symptoms may be delayed. Have the product container or label with

you when calling a poison control center or doctor or going for treatment. You may also call

1-866-944-8565 for emergency medical treatment information.

Note to physiciansNo specific antidote. Treat symptomatically.

Antidotes No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use, Dry chemical, Carbon dioxide (CO₂), Water spray (fog), Alcohol resistant foam

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Hazardous combustion products Phosphorus oxides. Oxides of sulfur. Carbon monoxide.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against

static discharges.

Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into

surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover

powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take

precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not

eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take necessary action to avoid

static electricity discharge (which might cause ignition of organic vapors).

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated

place. Keep away from heat. Keep in properly labeled containers.

Incompatible materials Strong bases. Strong acids. Iron. Steel. Copper.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines .

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection Dependent on job function. If vapors or dusts exceed acceptable levels, wear a

MSHA/NIOSH approved air-purifying respirator with any cartridges/filters approved for pesticides. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection Standard. Wear a supplied air

respirator if exposure concentrations are unknown.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular

cleaning of equipment, work area and clothing is recommended.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical stateLiquidAppearanceClear liquidColorStraw to amberOdorMild aromaticOdor thresholdNo data available

<u>Property</u> <u>Values (Remarks - Method)</u>

pH 3.69 (10% solution)
Melting point / freezing point No data available
Boiling point No data available

Flash point 92 °C / 198 °F (Tag Closed Cup)

Evaporation rate No data available Flammability (solid, gas) No data available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
No data available
No data available
Vapor pressure
No data available
Vapor density
No data available

Specific Gravity 1.19 g/ml **Water solubility** Soluble

Solubility in other solvents No data available Partition coefficient No data available No data available **Autoignition temperature** No data available **Decomposition temperature** Kinematic viscosity No data available **Dynamic viscosity** No data available **Explosive properties** No data available **Oxidizing properties** No data available

Other Information

VOC Content (%) No data available Density 9.89lbs/gal

<u>Note:</u> These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.



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10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong bases. Strong acids. Iron. Steel. Copper.

<u>Hazardous Decomposition Products</u>
Thermal decomposition can lead to release of irritating and toxic gases and vapors.



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11. TOXICOLOGICAL INFORMATION

Acute toxicity of the formulated product:

 $\begin{array}{lll} \textbf{Oral LD}_{50} & > 550 \text{ mg/kg} \\ \textbf{Dermal LD}_{50} & > 2,000 \text{ mg/kg} \\ \textbf{Inhalation (Dust) LC}_{50} & > 5.10 \text{ mg/l (rat, 4 hr)} \\ \end{array}$

Serious eye damage/eye irritation Moderate eye irritation.

Sensitization Sensitizer.

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC50
Malathion	= 1390 mg/kg (Rat) = 290 mg/kg (= 4100 mg/kg (Rabbit)	= 43790 μg/m³(Rat)4 h
	Rat)		

Chemical Name	Skin corrosion/irritation	Eye damage/irritation	Respiratory sensitization	Skin sensitization
Malathion				Category 1
121-75-5				

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Germ cell mutagenicity No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Malathion	-	Group 3	-	X
121-75-5				

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Chronic toxicity

Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated

exposure. May cause adverse effects on the bone marrow and blood-forming system. May

cause adverse liver effects.

Target Organ Effects Eyes, Skin, Respiratory system, liver, Blood Cholinesterase, Central nervous system,

Central Vascular System (CVS), Gastrointestinal tract (GI), blood, Eye damage/irritation.

Aspiration hazard No information available.

Information on likely routes of exposure

Product Information No data available

Inhalation No data available.

Eye contact Causes moderate eye irritation.

Skin contact Mild irritant.

Ingestion No data available.



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12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Malathion	EC50 4.06 mg/L 72 h	LC50 12.3 - 16.1 mg/L 96 h	EC50 0.00014 - 0.014 mg/L 48 h
121-75-5	Pseudokirchneriella subcapitata	Pimephales promelas LC50 6.45 -	Daphnia magna
		11.5 mg/L 96 h Pimephales	
		promelas LC50 10.1 mg/L 96 h	
		Pimephales promelas LC50 0.24 -	
		1.24 mg/L 96 h Cyprinus carpio	
		LC50 0.085 mg/L 96 h Cyprinus	
		carpio LC50 0.002 mg/L 96 h	
		Cyprinus carpio LC50 0.34 mg/L 96	
		h Lepomis macrochirus LC50 0.010	
		- 0.088 mg/L 96 h Lepomis	
		macrochirus LC50 0.089 mg/L 96 h	
		Lepomis macrochirus LC50 0.028	
		mg/L 96 h Oncorhynchus mykiss	
		LC50 0.094 - 0.146 mg/L 96 h	
		Oncorhynchus mykiss LC50 0.0022	
		- 0.0074 mg/L 96 h Oncorhynchus	
		mykiss LC50 9.7 mg/L 96 h Oryzias	
		latipes LC50 1.2 mg/L 96 h Poecilia	
		reticulata LC50 3.1 mg/L 96 h	
		Poecilia reticulata	

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/. Do not contaminate water, food or feed by storage or disposal.

Contaminated packaging Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Xylene 1330-20-7	-	Included in waste stream: F039	-	U239
Benzene, 1-methylethyl- 98-82-8	-	-	-	U055



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14. TRANSPORT INFORMATION

Note: Less than 12.5 gallons: NOT REGULATED BY DOT

DOT

UN/ID no UN3082

Proper shipping nameGreater than 12.5 gallons: RQ ENVIRONMENTALLY

HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (MALATHION) INSECTICIDES, INSECT REPELLENTS, NOI, OTHER THAN

POISON (NMFC 102120, CLASS 60)

Hazard Class
Packing Group

Packing GroupIIIReportable Quantity (RQ)Malathion: RQ kg= 53.56

Special Provisions 8, 146, 173, 335, IB3, T4, TP1, TP29

Marine pollutant This product contains a chemical which is listed as a marine

pollutant according to DOT. 171

Emergency Response Guide Number

U.S. Surface Freight Classification:



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15. REGULATORY INFORMATION

NFPA Health hazards 2 Flammability 2 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 2 Flammability 2 Physical hazards 0 Personal protection X

0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Severe

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Malathion - 121-75-5	1.0
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

L	Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
	Malathion	100 lb	-	-	X
	Maiathion 121-75-5	100 lb	-	-	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

	Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ī	Malathion	100 lb	-	RQ 100 lb final RQ
١	121-75-5			RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Malathion - 121-75-5	Carcinogen
Benzene, 1-methylethyl 98-82-8	Carcinogen

US EPA Waste Number U055 U239

U.S. EPA Label Information

EPA Registration Number 34704-474

EPA Statement

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Difference between SDS and EPA Pesticide label

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist or vapor. Prolonged or frequently repeated skin contact may cause allergic reactions in some



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individuals. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

16. OTHER INFORMATION

Prepared By Product Stewardship and Regulatory Affairs

Reviewed By Safety, Health and Environment

Issue Date 11/19/2020 **Revision Date** 11/19/2020

Revision Note

All SDS sections updated

MALATHION 8 AQUAMUL is a trademark of Loveland Products, Inc.

Disclaimer

This safety data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

End of Safety Data Sheet