



# Safety Data Sheet

Issue Date: 5-March-2019

Revision Date: 24 September 2023

Version 1.2

## 1. IDENTIFICATION

### Product identifier

**Product Name** Max Kill Dusta-Cide 6

### Other means of identification

**SDS #** DOUG-007

**Registration Number(s)** EPA Reg. No. 1015-69  
**UN/ID No** UN3077

### Recommended use of the chemical and restrictions on use

**Recommended Use** End Use Fumigant.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Douglas Products and Packaging Company, LLC  
1550 East Old 210 Highway  
Liberty, MO 64068  
Customer Information Number: 800-223-3684

### Emergency telephone number

**Emergency Telephone** 1-844-845-3129 or 1-352-326-7641

## 2. HAZARDS IDENTIFICATION

**Emergency Overview** This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

**Appearance** Yellow powder

**Physical state** Solid

**Odor** Skunk smell

### Classification

Acute toxicity - Oral	Category 4 - H301
Serious eye damage/eye irritation	Category 2 - H318
Skin sensitization	Category 1 - H317
Carcinogenicity	Category 1B - H350
Acute aquatic toxicity	Category 1 - H400

### Signal Word

**Danger**

### Hazard statements

Harmful if swallowed  
Causes serious eye irritation  
May cause an allergic skin reaction  
May cause cancer  
Acute aquatic toxicity

**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Contaminated work clothing must not be allowed out of the workplace

**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 IF ON SKIN: Wash with plenty of water and soap  
 If skin irritation or rash occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse  
 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
 Rinse mouth

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards**

Very toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Malathion	121-75-5	6
Other ingredients	Proprietary	94

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST AID MEASURES

**Description of first aid measures**

<b>General Advice</b>	Provide this SDS to medical personnel for treatment.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.
<b>Skin Contact</b>	Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a poison control center or doctor for treatment advice.
<b>Inhalation</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give

artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**Ingestion**

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed****Symptoms**

Harmful if swallowed. May be harmful in contact with skin. Causes serious eye irritation. May cause an allergic skin reaction.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

This material is a cholinesterase inhibitor. Treat symptomatically. Atropine is an antidote.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

AFFF foam. Alcohol resistant foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

**Hazardous combustion products** Aldehydes, hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and oxides of carbon, sulfur and phosphorus.

**Protective equipment and precautions for firefighters**

Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear. Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Isolate hazard area and restrict access. Use personal protection recommended in Section 8.

**Environmental precautions****Environmental precautions**

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, 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 Clean-Up**

Dike spill using suitable absorbent or impervious materials such as earth, sand, vermiculite or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dusts. Contaminated work clothing must not be allowed out of the workplace.

### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep/store only in original container. This product should never be heated above 55° (131°F), and should not be store for long periods of time at a temperature in excess of 25° (77°F).

#### **Incompatible Materials**

Oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Malathion 121-75-5	TWA: 1 mg/m <sup>3</sup> inhalable fraction and vapor S*	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) S* S* total dust	IDLH: 250 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
Other ingredients	-	(vacated) TWA: 6 mg/m <sup>3</sup> TWA: 20 mppcf : (80)/(%) SiO <sub>2</sub> mg/m <sup>3</sup> TWA	-

### Appropriate engineering controls

#### **Engineering Controls**

Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Showers.

### Individual protection measures, such as personal protective equipment

#### **Eye/Face Protection**

Wear eye/face protection. Refer to 29 CFR 1910.133 for eye and face protection regulations.

#### **Skin and Body Protection**

Applicators and other handlers must wear coveralls over long-sleeved shirt, long pants, shoes, and socks, and chemical-resistant gloves. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

#### **Respiratory Protection**

NIOSH-approved respirator with any N, R, P, or HE filter, and chemical-resistant headgear (if overhead exposure is expected). Refer to 29 CFR 1910.134 for respiratory protection requirements.

#### **General Hygiene Considerations**

Remove and wash contaminated clothing before reuse. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid	<b>Odor</b>	Skunk smell
<b>Appearance</b>	Yellow powder	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Not determined		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	6-7	
Melting point / freezing point	Not determined	
Boiling point / boiling range	Not determined	
Flash point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Flammability Limit in Air		
Upper flammability or explosive limits	Not determined	
Lower flammability or explosive limits	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Relative Density	Not determined	
Water Solubility	Not determined	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
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### Conditions to Avoid

Elevated temperatures.

### Incompatible materials

Oxidizing agents.

### Hazardous decomposition products

Decomposition products can include and are not limited to: Aldehydes, hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and oxides of carbon, sulfur and phosphorus.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Eye Contact</b>	Causes serious eye irritation.
<b>Skin Contact</b>	May be harmful in contact with skin.
<b>Inhalation</b>	Do not inhale.
<b>Ingestion</b>	Harmful if swallowed.

### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Malathion 121-75-5	= 290 mg/kg ( Rat ) = 1390 mg/kg ( Rat )	= 4100 mg/kg ( Rabbit )	= 43790 µg/m <sup>3</sup> ( Rat ) 4 h

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	Please see section 4 of this SDS for symptoms.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	No evidence of mutagenic effects during in vivo and in vitro assays.
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical name	ACGIH	IARC	NTP	OSHA
Malathion 121-75-5		Group 2A		X

#### Legend

IARC (*International Agency for Research on Cancer*)  
 Group 2A - *Probably Carcinogenic to Humans*  
 OSHA (*Occupational Safety and Health Administration of the US Department of Labor*)  
 X - *Present*

<b>Reproductive toxicity</b>	Not known to cause reproductive or birth defects at normal exposure levels.
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### Numerical measures of toxicity

<b>Oral LD50</b>	500.00 mg/kg
<b>Dermal LD50</b>	4,100.00 mg/kg
<b>Gas</b>	700.00 mg/L

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

### Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Malathion 121-75-5	4.06: 72 h Pseudokirchneriella subcapitata mg/L EC50	0.028: 96 h Oncorhynchus mykiss mg/L LC50 12.3 - 16.1: 96 h Pimephales promelas mg/L LC50 flow-through 0.085: 96 h Cyprinus carpio mg/L LC50 semi-static 10.1:	0.00014 - 0.014: 48 h Daphnia magna mg/L EC50

		96 h Pimephales promelas mg/L LC50 0.24 - 1.24: 96 h Cyprinus carpio mg/L LC50 static 0.002: 96 h Cyprinus carpio mg/L LC50 0.34: 96 h Lepomis macrochirus mg/L LC50 flow-through 9.7: 96 h Oryzias latipes mg/L LC50 static 3.1: 96 h Poecilia reticulata mg/L LC50 static 0.0022 - 0.0074: 96 h Onchorhynchus mykiss mg/L LC50 static 1.2: 96 h Poecilia reticulata mg/L LC50 0.089: 96 h Lepomis macrochirus mg/L LC50 0.010 - 0.088: 96 h Lepomis macrochirus mg/L LC50 static 0.094 - 0.146: 96 h Onchorhynchus mykiss mg/L LC50 semi-static 6.45 - 11.5: 96 h Pimephales promelas mg/L LC50 static	
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**Persistence/Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**Mobility**

Chemical name	Partition coefficient
Malathion 121-75-5	2.748

**Other Adverse Effects**

Bees: Toxic to bees, Contact LD50 0.71 µg/bee

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**Contaminated Packaging**

Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

**California Hazardous Waste Status**

Chemical name	California Hazardous Waste Status
Malathion 121-75-5	Toxic

**14. TRANSPORT INFORMATION****Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT****UN/ID No**

Not regulated in single containers smaller than 882 lbs. In containers larger than 882 lbs:  
UN3077

**Proper Shipping Name**

Environmentally Hazardous Substance, Solid, N.O.S. (contains malathion)

**Hazard class**

9

**Packing Group**

III

**Marine Pollutant**

Yes.

**IATA**

**UN number** UN3077  
**Proper Shipping Name** Environmentally Hazardous Substance, Solid, N.O.S. (contains malathion)  
**Transport hazard class(es)** 9  
**Packing Group** III

**IMDG**

**UN number** UN3077  
**Proper Shipping Name** Environmentally Hazardous Substance, Solid, N.O.S. (contains malathion)  
**Transport hazard class(es)** 9  
**Packing Group** III  
**Marine Pollutant** Yes

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

Chemical name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Malathion	X	X	X	X	X	X	X	X
Other ingredients	X	X		X	X	X	X	X

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations****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)
Malathion 121-75-5	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

**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	CAS No	Weight-%	SARA 313 - Threshold Values %
Malathion - 121-75-5	121-75-5	6	1.0

**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)



Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Malathion	100 lb			X

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Malathion - 121-75-5	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Malathion 121-75-5	X	X	X
Other ingredients	X	X	X

**EPA Pesticide Registration Number** EPA Reg. No. 1015-69**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:

**EPA Pesticide Label**

Signal Word: CAUTION. Causes moderate eye irritation. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing dust.

**Difference between SDS and EPA pesticide label**

	EPA	OSHA
<b>Signal Word</b>	Caution	Danger
Acute toxicity - Oral	Harmful if swallowed	Harmful if swallowed
Acute toxicity- dermal	Harmful if absorbed through the skin	N/A
Acute toxicity- inhalation	Harmful if inhaled	N/A
Serious eye damage/eye irritation	Causes moderate eye irritation	Causes serious eye irritation
Skin sensitization	N/A	May cause an allergic skin reaction
Carcinogenicity	N/A	May cause cancer

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	1	1	0	None
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical hazards</b>	<b>Personal Protection</b>
	Not determined	Not determined	Not determined	Not determined

**Issue Date:** 5-March-2019  
**Revision Date:** 24-September-2023  
**Revision Note:** Updated Section 2 to match Specimen Label and Aquatic Tox. Added GHS H-codes

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**