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United States

Safety Data Sheet

The Ortho Group P.O. Box 190 Marysville, Ohio 43040 United States 24 h. EMERGENCY TELEPHONE NUMBER CHEMTREC (U.S.) 1-800-424-9300 CHEMTREC (International) 1-703-527-3887 Non-Emergency Calls 1-937-644-0011

ORTHO MAX MALATHION INSECT SPRAY CONCENTRATE

Section 1. Identification

GHS product identifier : ORTHO MAX MALATHION INSECT SPRAY CONCENTRATE

Product type : Pesticide SDS # : 320000004876 EPA Registration Number: : 239-739

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

Use only in accordance with label directions.

Section 2. Hazards identification

This product is regulated by the Environmental Protection Agency (EPA) for label precautionary text see Section 15.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Classification of the substance or

mixture

FLAMMABLE LIQUIDS - Category 3

GHS label elements

Hazard pictograms



Signal word : Warning

Hazard statements : Flammable liquid and vapor.

Precautionary statements

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General : Read label before use. Keep out of reach of children. If medical advice

is needed, have product container or label at hand.

Prevention: Wear protective gloves. Wear eye or face protection. Keep away from

heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container

tightly closed.

Response : IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or shower.

Storage : Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents and container in accordance with all local,

regional, national and international regulations.

Supplemental label elements : None known. **Hazards not otherwise classified** : None known.

Section 3. Composition/information on ingredients

Substance/mixtureMixtureChemical nameNot available.Other means of identificationNot available.

| Ingredient name | % | CAS number |
|--|--------------|------------|
| Butanedioic acid, [(dimethoxyphosphinothioyl)thio]-, | >= 25 - < 50 | 121-75-5 |
| diethyl ester | | |
| Solvent naphtha (petroleum), light arom. | >= 25 - < 50 | 64742-95-6 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the

upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if

irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable

for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are

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severe. If unconscious, place in recovery position and get medical

attention immediately. Maintain an open airway.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated

clothing and shoes. Get medical attention if symptoms occur. Wash

clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. If material has been swallowed and the

exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects persist or are severe.

Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without

suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet.

Specific hazards arising from the chemical

: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Fire

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Hazardous thermal decomposition products

water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
sulfur oxides
phosphorus oxides

Special protective actions for firefighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is

inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See

also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil,

waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment

if released in large quantities.

Methods and materials for containment and cleaning up

Spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency

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contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only nonsparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Occupational exposure limits

| Ingredient name | Exposure limits |
|------------------------------------|-------------------------------|
| Butanedioic acid, | OSHA PEL 1989 (1989-03-01) |
| [(dimethoxyphosphinothioyl)thio]-, | TWA 10 mg/m3 Form: Total dust |
| diethyl ester | OSHA PEL (1993-06-30) |
| | TWA 15 mg/m3 Form: Total dust |
| | NIOSH REL (1994-06-01) |
| | TWA 10 mg/m3 |
| | ACGIH TLV (2003-01-01) |

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TWA 1 mg/m3 Form: Inhalable fraction and vapor
Notes: Substances for which there is a Biological Exposure Index or
Indices for Acetylcholinesterase Inhibiting Pesticides

Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical

products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

Eye/face protection : Protective eyewear.

Skin protection

Hand protection : Protective gloves are not required, but may be used in situations were

significant contact is expected.

Body protection: Wear long-sleeved shirt, long pants, shoes with socks., Remove and

wash contaminated clothing before reuse.

Other skin protection : Appropriate footwear and any additional skin protection measures

should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this

product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying

with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits

of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : liquid [LIGHT YELLOW LIQUID]

Color : Light yellow

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Odor : Characteristic of organophosphates

Odor threshold : Not available.

pH : 2.9

Melting point: Not available.Boiling point: Not available.Flash point: 112 °F (44.44 °C)

Evaporation rate : Not available. Flammability (solid, gas) : Not available.

Lower and upper explosive : Lower: Not available. (flammable) limits : Upper: Not available.

Vapor pressure: Not available.Vapor density: Not available.Relative density: 1.04 - 1.055

Solubility : Not available. **Partition coefficient: n-** : Not available.

octanol/water

Auto-ignition temperature : Not available. **Decomposition temperature** : Not available.

Viscosity : Dynamic: Not available.

Kinematic: Not available.

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or

its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will

not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not

pressurize, cut, weld, braze, solder, drill, grind or expose containers to

heat or sources of ignition.

Incompatible materials: Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

products

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|--------|---------|------|----------|

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| LD50 Oral | Rat | 1,500 mg/kg | - |
|-----------------|--------|---------------|-----|
| LC50 Inhalation | Rat | > 5 mg/l | 4 h |
| LD50 Dermal | Rabbit | > 2,000 mg/kg | - |

Conclusion/Summary : Toxic to humans or animal life.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------|---------|-------|----------|-------------|
| | Eyes - | Rabbit | 2.0 | | - |
| | Redness of | | | | |
| | the | | | | |
| | conjunctivae | | | | |
| | Skin - | Rabbit | 2.3 | | - |
| | Erythema/Es | | | | |
| | char | | | | |

Conclusion/Summary

Skin : Irritating
Eyes : Irritating

Respiratory : May cause respiratory irritation

Sensitization

| Product/ingredient name | Route of exposure | Species | Result |
|-------------------------|-------------------|------------|-----------------|
| | Skin | Guinea pig | Not sensitizing |

Conclusion/Summary

Skin : Not sensitizing

Respiratory: Not sensitizing - based on the individual components.

Mutagenicity

| Product/ingredient name | Test | Experiment | Result |
|-------------------------|------|---------------|----------|
| | - | In vivo: Germ | Negative |

Conclusion/Summary : No known significant effects or critical hazards. No known significant effects or critical hazards.

Carcinogenicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|-------------|---------|------|----------|
| | Negative - | Man | | |
| | Dermal - TD | | | |

Conclusion/Summary : No known significant effects or critical hazards. No known significant effects or critical hazards.

Classification

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| Product/ingredient name | OSHA | IARC | NTP |
|--------------------------|------|------|-----|
| Butanedioic acid, | | 3 | |
| [(dimethoxyphosphinothio | | | |
| yl)thio]-, diethyl ester | | | |

Reproductive toxicity

Conclusion/Summary : No known significant effects or critical hazards. No known significant

effects or critical hazards.

Teratogenicity

Conclusion/Summary : No known significant effects or critical hazards. No known significant

effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

| Name | Result |
|--|--------|
| Solvent naphtha (petroleum), light arom. | |

Information on the likely routes of

exposure

Not available.

Potential chronic health effects

Conclusion/Summary : No known significant effects or critical hazards. No known significant

effects or critical hazards.

General: No known significant effects or critical hazards.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

Section 12. Ecological information

Toxicity

Conclusion/Summary : Not available.

Persistence and degradability

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Conclusion/Summary No known significant effects or critical hazards.

Mobility in soil

Soil/water partition coefficient

(KOC)

Not available.

Other adverse effects No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

| Regulatory | TINI | Decree of the state of the stat | C 1 | DCv | N T - 4 - |
|--------------------|---------------|--|--------------|---------|------------------|
| <u>information</u> | <u>UN no.</u> | Proper shipping name | <u>Class</u> | PG* | Note |
| DOT | | Not Regulated | | | |
| IATA (C) | 1993 | Flammable liquid, n.o.s. (Solvent naphtha | 3 | (, III) | |
| . , | | (petroleum), light arom.) | | . , | |
| IATA (P) | 1993 | Flammable liquid, n.o.s. (Solvent naphtha | 3 | (, III) | |
| , , | | (petroleum), light arom.) | | . , | |
| IMDG | 1993 | FLAMMABLE LIQUID, N.O.S. | 3 | (, III) | |
| TDG | 1993 | FLAMMABLE LIQUID, N.O.S. | 3 | (, III) | |
| PG* : Packing | group | , | | , | |

Section 15. Regulatory information

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Version: **Date of issue/Date of revision:** Validity date ***. Date of previous issue: 10/08/2015 version

Precautionary statements

Signal word : CAUTION!

Emergency Overview : Keep out of reach of children.

Do not allow people or pets to enter the treated area until spray has dried.

Harmful if swallowed.

Harmful if absorbed through the skin. Causes moderate eye irritation.

Avoid contact with skin, eyes or clothing.

When using this product, wear long-sleeved shirt, long pants, socks, shoes,

and rubber gloves.

Wash thoroughly after handling.

Combustible liquid.

Keep away from heat, sparks and open flame.

U.S. Federal regulations

United States inventory (TSCA 8b):

All components are listed or exempted.

State regulations

California Prop. 65

Not available.

International lists

National inventory

Australia: At least one component is not listed.Canada: At least one component is not listed.China: At least one component is not listed.Europe: At least one component is not listed.Japan: At least one component is not listed.

Malaysia : Not determined.

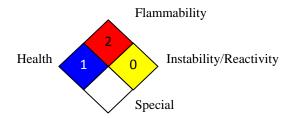
New Zealand: At least one component is not listed.Philippines: At least one component is not listed.Republic of Korea: At least one component is not listed.

Taiwan : Not determined.

Section 16. Other information

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National Fire Protection Association (U.S.A.):



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

| Classification | Justification |
|----------------|-----------------------|
| H226 | On basis of test data |

History

Date of issue/Date of revision : Validity date***.

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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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