

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



EARTH OPTIONS™ BY RAID® HOUSE & GARDEN INSECT KILLER

Version 1.1

Print Date 10/23/2009

Revision Date 10/20/2009

MSDS Number 350000012540
SITE_FORM Number
30000000000000009910.001

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Trade name : EARTH OPTIONS™ BY RAID® HOUSE & GARDEN INSECT KILLER

Use of the Substance/Mixture : Insecticide

Company : S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236

Emergency telephone : 24 Hour Transport & Medical Emergency Phone (866) 231-5406
24 Hour International Emergency Phone (952) 852-4647

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance / Odor : gold / liquid / mild

Immediate Concerns

: Caution
Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas.

Potential Health Effects

Exposure routes : Eye, Skin, Inhalation, Ingestion.

Eyes : May cause:
Mild eye irritation

Skin : Harmful if absorbed through skin.
May cause skin irritation.
May cause skin reactions in rare cases.

Inhalation : May cause nose, throat, and lung irritation.

Ingestion : Harmful if swallowed.

Aggravated Medical Condition : Persons with pre-existing skin disorders may be more susceptible to irritating effects.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Water	7732-18-5	60.00 - 100.00
Piperonyl butoxide	51-03-6	0.20
Pyrethrins	8003-34-7	0.02

4. FIRST AID MEASURES

- Eye contact : Flush immediately with plenty of water for at least 15 to 20 minutes. Remove contact lenses. Get medical attention immediately.
- Skin contact : Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention immediately.
- Inhalation : Remove to fresh air. Get medical attention immediately. If not breathing, give artificial respiration.
- Ingestion : DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water, Foam, Carbon dioxide (CO2)
- Specific hazards during fire fighting : Container may melt and leak in heat of fire.
- Further information : Wear full protective clothing and positive pressure self-contained breathing apparatus.
- Flash point : 94 °C
- Flash point : 201 °F
- Lower explosion limit : Note: no data available
- Upper explosion limit : Note: no data available

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6. ACCIDENTAL RELEASE MEASURES

- Environmental precautions : Use appropriate containment to avoid environmental contamination.
- Methods for cleaning up : Soak up with inert absorbent material.
Dike large spills.
Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

- Advice on safe handling : Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.
Avoid contact with skin, eyes and clothing.
Avoid breathing vapors, mist or gas.

Storage

- Requirements for storage areas and containers : Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

Personal protective equipment

Respiratory protection

- Industrial setting : Substantial amounts of mist/vapors can be controlled with local exhaust ventilation or respiratory protection.
- Household setting : No personal respiratory protective equipment normally required.

Hand protection

- Industrial setting : For prolonged or repeated contact use protective gloves.
- Household setting : For prolonged or repeated contact use protective gloves.

Eye protection

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Industrial setting : If prolonged or repeated contact is possible:
Safety glasses with side-shields

Household setting : No special requirements.

Hygiene measures : Use only with adequate ventilation. Wash thoroughly after handling. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Keep away from food, drink and animal feedingstuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Color : gold

Odor : mild

pH : no data available

Boiling point : no data available

Freezing point : no data available

Flash point : 94 °C

Flash point : 201 °F

Evaporation rate : no data available

Autoignition temperature : no data available

Lower explosion limit : no data available

Upper explosion limit : no data available

Density : > 1 g/cm³

Water solubility : dispersible

Volatile Organic Compounds (California Air Resource Board – CARB) : 0 % - does not include any applicable regulatory exemptions
Total VOC (wt. %)

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10. STABILITY AND REACTIVITY

- Conditions to avoid : Direct sources of heat.
- Materials to avoid : Strong acids and strong bases
Strong oxidizing agents
- Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapours.
- Hazardous reactions : Stable

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50
Measured
> 2,000 mg/kg

Acute inhalation toxicity : LC50
Measured
> 2.03 mg/l

Acute dermal toxicity : LD50
Measured
> 2,000 mg/kg

Chronic effects

Carcinogenicity : no data available

Mutagenicity : no data available

Reproductive effects : no data available

Teratogenicity : no data available

Sensitisation : Not known to be a sensitizer.

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12. ECOLOGICAL INFORMATION

Ecotoxicity effects : Harmful to aquatic organisms. Very toxic to bees.

13. DISPOSAL CONSIDERATIONS

Industrial setting : PESTICIDAL WASTE:
Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.

Household setting : Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Land transport

U.S. DOT and Canadian TDG Surface Transportation:

UN-Number 3082
Proper shipping name Environmentally hazardous substance, n.o.s.
Class: 9
Packaging group: III

Note: SC Johnson ships this product as Consumer Commodity ORM-D (non-bulk packages)

Sea transport

IMDG:

Class: 9
Packaging group: III
Proper shipping name Environmentally hazardous substance, n.o.s.
UN-Number: 3082

Air transport

ICAO/IATA:

Class: 9
Packaging group: III
Proper shipping name Environmentally hazardous substance, n.o.s.
UN/ID No.: UN 3082

Note: SC Johnson typically does not ship products via air, therefore it has not been determined if the product container meets current

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IATA/ICAO package criteria. Refer to IATA/ICAO Dangerous Goods Regulations for detailed instructions when shipping this item by air.

15. REGULATORY INFORMATION

Notification status : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

California Prop. 65 : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Registration # / Agency
4822-563/EPA

16. OTHER INFORMATION

HMIS Ratings

Health	1
Flammability	1
Reactivity	0

NFPA Ratings

Health	1
Fire	1
Reactivity	0
Special	

Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by:	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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