

Material Safety Data Sheet

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



EARTH OPTIONS™ BY RAID® GRASS & WEED KILLER

Version 1.1

Print Date 10/23/2009

Revision Date 10/20/2009

MSDS Number 350000012537
SITE_FORM Number
30000000000000009905.001

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Trade name : EARTH OPTIONS™ BY RAID® GRASS & WEED 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 : clear / liquid / mild

Immediate Concerns

: Caution
CAUSES EYE IRRITATION.
COMBUSTIBLE:
Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas. Keep away from heat, sparks and flame.

Potential Health Effects

Exposure routes : Eye, Skin, Inhalation, Ingestion.

Eyes : May cause:
Moderate eye irritation

Skin : May cause skin irritation.

Inhalation : Harmful if inhaled.
May cause nose, throat, and lung irritation.

Ingestion : May cause irritation to mouth, throat and stomach.

Aggravated Medical Condition : Persons with pre-existing skin disorders may be more susceptible to irritating effects., Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc. 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
Isopropanol	67-63-0	1.00 - 5.00
Ammoniated soaps of fatty acids	Mixture	1.00 - 5.00

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 : Wash off with soap and water. Get medical attention if irritation develops and persists.
- Inhalation : Remove to fresh air. Get medical attention immediately. If not breathing, give artificial respiration.
- Ingestion : Do NOT induce vomiting. Drink 1 or 2 glasses of water. 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 : estimated 130 °F
- Lower explosion limit : Note: no data available
- Upper explosion limit : Note: no data available

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Remove all sources of ignition.

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- 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.
- Advice on protection against fire and explosion : Keep away from heat and sources of ignition.
To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.

Storage

- Requirements for storage areas and containers : Keep in a dry, cool and well-ventilated place.
Do not freeze.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Basis
Isopropanol	67-63-0	-	400 ppm	ACGIH STEL
Isopropanol	67-63-0	-	200 ppm	ACGIH TWA
Isopropanol	67-63-0	980 mg/m3	400 ppm	OSHA TWA

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

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required.

Hand protection

- Industrial setting : For prolonged or repeated contact use protective gloves.
- Household setting : not required under normal use

Eye protection

- 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 : clear
- Odor : mild
- pH : 7.8
- Boiling point : no data available
- Freezing point : no data available
- Flash point : estimated 130 °F
- Evaporation rate : no data available
- Lower explosion limit : no data available
- Upper explosion limit : no data available
- Vapour pressure : no data available
- Density : 0.99 g/cm³
- Water solubility : completely miscible

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Volatile Organic Compounds : 2 % - does not include any applicable regulatory
(California Air Resource Board – CARB) exemptions
Total VOC (wt. %)

10. STABILITY AND REACTIVITY

Conditions to avoid : Direct sources of heat.
Materials to avoid : Strong oxidizing agents
Hazardous decomposition products : When exposed to fire, produces normal products of combustion.
Hazardous reactions : Stable

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50
Measured
> 5,000 mg/kg
Acute inhalation toxicity : LC50
Measured
> 1.66 mg/l
Acute dermal toxicity : LD50
Measured
> 5,000 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.

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 1993
Proper shipping name Flammable Liquid, N.O.S.
Class: 3
Packaging group: III

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

Sea transport

IMDG:

Class: 3
Packaging group: III
Proper shipping name Flammable Liquid, N.O.S.
UN-Number: 1993

Air transport

ICAO/IATA:

Class: 3
Packaging group: III
Proper shipping name Flammable Liquid, N.O.S.
UN/ID No.: UN 1993

Note: SC Johnson typically does not ship products via air, therefore it has

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not been determined if the product container meets current 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 is not subject to the reporting requirements under California's Proposition 65.
- Canada Regulations : This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Registration # / Agency
67702-7-4822/EPA

16. OTHER INFORMATION

HMIS Ratings

Health	2
Flammability	2
Reactivity	0

NFPA Ratings

Health	2
Fire	2
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 &

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Regulatory Affairs (GSARA)