

# 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 03/04/2011

Revision Date 10/20/2009

MSDS Number 350000012537  
SITE\_FORM Number  
3000000000000009905.001

### 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

# 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 03/04/2011

Revision Date 10/20/2009

MSDS Number 350000012537

SITE\_FORM Number

3000000000000009905.001

### 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.

# 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 03/04/2011

Revision Date 10/20/2009

MSDS Number 350000012537  
SITE\_FORM Number  
3000000000000009905.001

- 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

## 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 03/04/2011

Revision Date 10/20/2009

MSDS Number 350000012537

SITE\_FORM Number

3000000000000009905.001

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/cm <sup>3</sup>
Water solubility	: completely miscible

## 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 03/04/2011

Revision Date 10/20/2009

MSDS Number 350000012537

SITE\_FORM Number

30000000000000009905.001

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.

# 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 03/04/2011

Revision Date 10/20/2009

MSDS Number 350000012537  
SITE\_FORM Number  
3000000000000009905.001

### 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

# 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 03/04/2011

Revision Date 10/20/2009

MSDS Number 350000012537  
SITE\_FORM Number  
3000000000000009905.001

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 &

**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 03/04/2011

Revision Date 10/20/2009

MSDS Number 350000012537  
SITE\_FORM Number  
30000000000000009905.001

	Regulatory Affairs (GSARA)
--	----------------------------