

Material Safety Data Sheet

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



RAID® FUMIGATOR - FUMIGATING FOGGER

Version 1.2

Print Date 10/15/2008

Revision Date 09/03/2008

MSDS Number 350000011093

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Trade name : RAID® FUMIGATOR - FUMIGATING FOGGER

Use of the Substance/Preparation : 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 : yellow-orange / Solid form / characteristic

Immediate Concerns

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

Potential Health Effects

Routes of exposure : Eye, Skin, Inhalation, Ingestion.

Eyes : May cause:
Mild eye irritation

Skin : Harmful if absorbed through skin.

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

Ingestion : Harmful if swallowed.

Aggravated Medical Condition : None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Azodicarbonamide	123-77-3	60.00 - 100.00
Permethrin	52645-53-1	12.60
Modified starch	56780-58-6	1.00 - 5.00

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4. FIRST AID MEASURES

- | | | |
|--------------|---|--|
| Eye contact | : | Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention if irritation develops and persists. |
| Skin contact | : | Wash off with soap and water. Get medical attention if irritation develops and persists. |
| Inhalation | : | Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately. |
| Ingestion | : | Drink 1 or 2 glasses of water. Induce vomiting, but only if victim is fully conscious. Never give anything by mouth to an unconscious person. Get medical attention immediately. |

5. FIRE-FIGHTING MEASURES

- | | | |
|---------------------------------------|---|---|
| Suitable extinguishing media | : | Alcohol foam, carbon dioxide, dry chemical, water fog |
| Specific hazards during fire fighting | : | Exposure to decomposition products may be a hazard to health. |
| Further information | : | Wear full protective clothing and positive pressure self-contained breathing apparatus. Fight fire from maximum distance or protected area. |
| Flash point | : | 400 °F |
| Flash point | : | 204 °C |
| Lower explosion limit | : | Note: no data available |
| Upper explosion limit | : | Note: no data available |

6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---------------------------|---|---|
| Environmental precautions | : | Use appropriate containment to avoid environmental contamination. |
| Methods for cleaning up | : | Sweep up and shovel into suitable containers for disposal. |

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7. HANDLING AND STORAGE

Handling

Advice on safe handling : KEEP OUT OF REACH OF CHILDREN AND PETS.
Avoid contact with skin, eyes and clothing.
Avoid breathing vapors, mist or gas.
Do not use in areas without adequate ventilation.
Product residue may remain in/on empty containers. All precautions taken in handling the product must be used in handling the empty container and residue.
Use only as directed.

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 : In the case of dust or aerosol formation use respirator with an approved filter.

Household setting : No personal respiratory protective equipment normally 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. Wear suitable protective clothing. Keep away from

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food, drink and animal feedingstuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid form
Color	:	yellow-orange
Odor	:	characteristic
pH	:	not applicable
Boiling point	:	no data available
Freezing point	:	no data available
Flash point	:	400 °F
Flash point	:	204 °C
Autoignition temperature	:	no data available
Lower explosion limit	:	no data available
Upper explosion limit	:	no data available
Vapour pressure	:	no data available
Water solubility	:	no data available

10. STABILITY AND REACTIVITY

Conditions to avoid	:	None known.
Materials to avoid	:	Strong acids and oxidizing agents
Hazardous decomposition products	:	Carbon oxides nitrogen oxides (NOx) Ammonia gas may be liberated at high temperatures.
Hazardous reactions	:	Stable

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50 rat Dose: Calculated 4,672 mg/kg
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Acute inhalation toxicity : LC50 rat
Dose: 2.3 mg/l

Acute dermal toxicity : LD50 rat
Dose: > 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.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects : Not Available

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 : None.
Proper shipping name : not regulated
Class: : None.
Packaging group : None.

Sea transport

IMDG:

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UN-Number: None.
Packaging group: None.
Proper shipping name: not regulated
Class: None.

Air transport

▪ ICAO/IATA:
Class: None.
Packaging group: None.
Proper shipping name: not regulated
UN/ID No.: None.

15. REGULATORY INFORMATION

Global Chemical Inventories

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.

EPA Registration Number : 4822-278

16. OTHER INFORMATION

HMIS Ratings

Health	1
Flammability	0
Reactivity	1

NFPA Ratings

Health	1
Fire	0
Reactivity	1

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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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CALCIUM OXIDE for RAID® FUMIGATOR

Version 1.

Print Date 07/30/2009

Revision Date 09/03/2008

MSDS Number 350000011336

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Trade name : CALCIUM OXIDE for RAID® FUMIGATOR

Use of the Substance/Preparation Company : Insecticide
: 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 : white / pellets / odourless

Immediate Concerns

: Caution
CAUSES EYE IRRITATION.
CAUSES SKIN IRRITATION.
Avoid contact with skin, eyes and clothing.

Potential Health Effects

Routes of exposure : Eye, Skin, Inhalation, Ingestion.

Eyes : May cause:
Severe eye irritation
May cause permanent eye injury.

Skin : May irritate skin.

Inhalation : Excessive exposures may affect human health, as follows:
May cause nose, throat, and lung irritation.

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

Aggravated Medical Condition : Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc. may be more susceptible to irritating effects, Persons with pre-existing skin disorders may be more susceptible to irritating effects.

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MSDS Number 350000011336

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Calcium oxide	1305-78-8	60.00 - 100.00
Magnesium oxide	1309-48-4	1.00 - 5.00

4. FIRST AID MEASURES

- Eye contact : Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention immediately.
- Skin contact : Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention immediately.
- Inhalation : If breathing is affected, get medical attention. Remove to fresh air.
- Ingestion : Immediately give large quantities of water to drink. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical
- Extinguishing media which shall not be used for safety reasons : Halons Water
- Further information : Wear full protective clothing and positive pressure self-contained breathing apparatus. Fight fire from maximum distance or protected area.
- Flash point : Note: not applicable
- Lower explosion limit : Note: no data available
- Upper explosion limit : Note: no data available

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Avoid breathing dust.
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not contaminate surface water.

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Methods for cleaning up : Sweep up and shovel into suitable containers for disposal.
Pick up and arrange disposal without creating dust.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Use only as directed.
Avoid contact with skin, eyes and clothing.
Avoid creating dust.
KEEP OUT OF REACH OF CHILDREN AND PETS.

Storage

Requirements for storage areas and containers : Keep in a dry, cool and well-ventilated place.
Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Basis
Calcium oxide	1305-78-8	2 mg/m3	-	ACGIH TWA
Calcium oxide	1305-78-8	5 mg/m3	-	OSHA TWA
Magnesium oxide	1309-48-4	10 mg/m3	-	ACGIH TWA
Magnesium oxide	1309-48-4	15 mg/m3	-	OSHA TWA

Personal protective equipment

Respiratory protection

Industrial setting : In the case of dust or aerosol formation use respirator with an approved filter.

Household setting : No personal respiratory protective equipment normally required.

Hand protection

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

Household setting : not required under normal use

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Eye protection

Industrial setting : If prolonged or repeated contact is possible:
Safety glasses with side-shields
Do not wear contact lenses.

Household setting : No special requirements.

Hygiene measures : Use only with adequate ventilation. Wash thoroughly after handling. Wear suitable protective clothing. Keep away from food, drink and animal feedingstuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : pellets

Color : white

Odor : odourless

pH : alkaline

Boiling point : 2,850 °C

Flash point : not applicable

Evaporation rate : not applicable

Autoignition temperature : no data available

Lower explosion limit : no data available

Upper explosion limit : no data available

Vapour pressure : not applicable

Water solubility : soluble

Specific Gravity : no data available

10. STABILITY AND REACTIVITY

Conditions to avoid : None known.

Materials to avoid : Acids
Halogenated compounds
Powdered metals

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Acid anhydrides

Hazardous decomposition products : Reacts with water to form Ca(OH)₂ and heat.

Hazardous reactions : Exothermic reaction with strong acids.
Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat
Dose: 500 mg/kg

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Chronic effects

Carcinogenicity : no data available

Mutagenicity : no data available

Reproductive effects : no data available

Teratogenicity : no data available

Sensitisation : no data available

12. ECOLOGICAL INFORMATION

Ecotoxicity effects : Hazardous to the aquatic environment

13. DISPOSAL CONSIDERATIONS

Industrial setting : 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

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U.S. DOT and Canadian TDG Surface Transportation

UN-Number: not determined
Proper shipping name not determined
Class: not determined
Packaging group not determined

Sea transport

IMDG:

UN-Number: not determined
Packaging group: not determined
Proper shipping name not determined
Class: not determined

Air transport

ICAO/IATA:

Class: not determined
Packaging group: not determined
Proper shipping name not determined
UN/ID No.: not determined

15. REGULATORY INFORMATION

Global Chemical Inventories

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 State of California to cause cancer, birth, or any other reproductive defects.

Other regulations : All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

16. OTHER INFORMATION

HMIS Ratings

Health

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Flammability	0
Reactivity	1

NFPA Ratings

Health	3
Fire	0
Reactivity	1
Special	

Further information

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