

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1226



RAID® FLYING INSECT KILLER FORMULA 6

Version 1.

Print Date 08/18/2008

Revision Date 04/12/2008

MSDS Number 350000010286

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Trade name : RAID® FLYING INSECT KILLER FORMULA 6

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 : opaque / aerosol / characteristic

Immediate Concerns

: Caution
CONTENTS UNDER PRESSURE. Do not puncture or incinerate. Keep away from heat, sparks and flame. Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas.

Potential Health Effects

Routes of exposure : Eye, Skin, Inhalation, Ingestion.
Eyes : May cause: Mild eye irritation
Skin : Moderate skin irritant May be harmful if absorbed through skin.
Inhalation : May be harmful if inhaled. Inhalation may cause central nervous system effects.
Ingestion : May be harmful if swallowed. May cause: Abdominal discomfort. May cause irritation to mouth, throat and stomach.
Aggravated Medical Condition : Persons with pre-existing skin disorders may be more susceptible to irritating effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Deionized Water	7732-18-5	70.00 - 80.00

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BUTANE	106-97-8	5.00 - 10.00
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	64742-47-8	5.00 - 10.00
PROPANE	74-98-6	5.00 - 10.00
ISOBUTANE	75-28-5	5.00 - 10.00
TETRAMETHRIN	7696-12-0	0.35
PERMETHRIN	52645-53-1	0.10
SODIUM NITRITE	7632-00-0	0.10
D-ALLETHRIN	584-79-2	0.10

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 : Flush immediately with plenty of water for at least 15 to 20 minutes.
Get medical attention if irritation develops and persists.
- Inhalation : Remove to fresh air.
If breathing is affected, get medical attention.
- Ingestion : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.
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 : Alcohol foam, carbon dioxide, dry chemical, water fog
- Specific hazards during fire fighting : Material may burn in heat of fire.
Do not allow run-off from fire fighting to enter drains or water courses.
- Further information : Aerosol Product - Containers may rocket or explode in heat of fire.
Fight fire from maximum distance or protected area.
Cool and use caution when approaching or handling fire-exposed containers.
Wear full protective clothing and positive pressure self-contained breathing apparatus.

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Flash point : < 20 °F
Method: Tag Closed Cup (TCC)
Note: Propellant

Lower explosion limit : Note: no data available

Upper explosion limit : Note: no data available

NFPA Classification : NFPA Level 1 Aerosol

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Remove all sources of ignition.

Environmental precautions : Use appropriate containment to avoid environmental contamination.

Methods for cleaning up : Soak up with inert absorbent material.
Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : KEEP OUT OF REACH OF CHILDREN AND PETS.
Avoid contact with skin, eyes and clothing.
Do not puncture or incinerate.
Use only as directed.
Avoid breathing vapors, mist or gas.
Do not enter places where used or stored until adequately ventilated.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Storage

Requirements for storage areas and containers : Keep in a dry, cool and well-ventilated place.
Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational Exposure Limits**

Components	CAS-No.	mg/m3	ppm	Basis
BUTANE	106-97-8		1,000 ppm	ACGIH TWA
PROPANE	74-98-6		1,000 ppm	ACGIH TWA
		1,800 mg/m3	1,000 ppm	OSHA TWA
ISOBUTANE	75-28-5		1,000 ppm	ACGIH TWA

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : For prolonged or repeated contact use protective gloves.
- Eye protection : No special requirements.
- Hygiene measures : Use only with adequate ventilation.
Wash thoroughly after handling.
Substantial amounts of mist/vapors can be controlled with local exhaust ventilation or respiratory protection.
Wear suitable protective clothing.
Keep away from food and drink.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : aerosol
- Color : opaque
- Odor : characteristic
- pH : 5.5 - 8.0
- Boiling point : no data available
- Flash point : < 20 °F
Method: Tag Closed Cup (TCC)

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Propellant

Evaporation rate	: no data available
Autoignition temperature	: no data available
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Density	: 0.86 g/cm ³
Water solubility	: negligible

10. STABILITY AND REACTIVITY

Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: Do not mix with oxidizing agents.
Hazardous decomposition products	: When exposed to fire, produces normal products of combustion.
Hazardous reactions	: Stable

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 rat Dose: estimated 5,000 mg/kg
Acute inhalation toxicity	: LC50 rat Dose: > 2.0 mg/l
Acute dermal toxicity	: LD50 rabbit Dose: estimated > 5,000 mg/kg
Chronic effects	
Carcinogenicity	: no data available
Mutagenicity	: no data available
Reproductive effects	: no data available

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Teratogenicity : no data available
Sensitisation : Not known to be a sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Product : Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.
Waste Class : D001 (Ignitable Waste)
Product Category : AF: Aerosol Flammable

14. TRANSPORT INFORMATION

Land transport

▪ **U.S. DOT and Canadian TDG Surface Transportation:**

UN-Number : 1950
Proper shipping name : Aerosols, flammable
Class: : 2.1
Packaging group: : None.

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

Sea transport

▪ **IMDG:**

Class: : 2.1
Packaging group: : None.
Proper shipping name : Aerosols, flammable
UN-Number: : 1950
ADR/RID-Labels: : None.

Note: SC Johnson ships this product as "Limited Quantity" when the container quantity value is 1 Liter or less.

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Air transport

▪ **ICAO/IATA:**

Class:	2.1
Packaging group:	None.
Proper shipping name	Aerosols, flammable
UN/ID No.:	UN 1950
ADR/RID-Labels:	None.
Note:	SC Johnson typically does not ship products via air, therefore it has 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

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 : 4822-513

16. OTHER INFORMATION

HMIS Ratings

Health	1
Flammability	4
Reactivity	0

NFPA Ratings

Health	1
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Fire	4
Reactivity	0
Special	

Further information

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