

Material Safety Data Sheet

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



RAID® FLYING INSECT KILLER FORMULA 6 - OUTDOOR FRESH

Version 5.0

Print Date 09/13/2012

Revision Date 09/13/2012

MSDS Number 350000010286
SITE_FORM Number
300000000000000008805.002

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Trade name : RAID® FLYING INSECT KILLER FORMULA 6 - OUTDOOR FRESH

Use of the Substance/Mixture : Insecticide
Company : S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236

Emergency telephone number : 24 Hour Medical Emergency Phone: (866)231-5406
24 Hour International Emergency Phone: (703)527-3887
24 Hour Transport Emergency Phone: (800)424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance / Odor : opaque / aerosol / characteristic

Immediate Concerns

: Caution
CAUSES SKIN IRRITATION.
Avoid contact with skin, eyes and clothing.
Keep away from heat, sparks and flame.
Contents under pressure.
Do not puncture or incinerate.
Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.

Potential Health Effects

Exposure routes : Eye, Skin, Inhalation, Ingestion.

Eyes : May cause:
Mild eye irritation

Skin : May cause transient tingling and reddening of the skin.
Causes moderate skin irritation.

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

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

Material Safety Data Sheet

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



RAID® FLYING INSECT KILLER FORMULA 6 - OUTDOOR FRESH

Version 5.0

Print Date 09/13/2012

Revision Date 09/13/2012

MSDS Number 350000010286

SITE_FORM Number
30000000000000008805.002

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous chemicals present at or above reportable levels as defined by OSHA 29 CFR 1910.1200 or the Canadian Controlled Products Regulations are listed in this table:

Chemical Name	CAS-No.	Weight percent
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	0.10 - 1.00
Sodium nitrite	7632-00-0	0.10 - 1.00
Permethrin	52645-53-1	0.10 - 1.00
Allethrin	584-79-2	0.001 - 0.10

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

4. FIRST AID MEASURES

Eye contact : Rinse with plenty of water. Get medical attention if irritation develops and persists.

Skin contact : Wash off immediately with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse.

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. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Material Safety Data Sheet

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



RAID® FLYING INSECT KILLER FORMULA 6 - OUTDOOR FRESH

Version 5.0

Print Date 09/13/2012

Revision Date 09/13/2012

MSDS Number 350000010286

SITE_FORM Number

300000000000000008805.002

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting : Aerosol Product - Containers may rocket or explode in heat of fire. Do not allow run-off from fire fighting to enter drains or water courses.
- Further information : 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. In case of fire and/or explosion do not breathe fumes.
- Flash point : < -7 °C
< 19.4 °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.
Wear personal protective equipment.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Use appropriate containment to avoid environmental contamination.
Outside of normal use, avoid release to the environment.
- Methods for cleaning up : If damage occurs to aerosol can:
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Use only non-sparking equipment.
Clean residue from spill site.

Material Safety Data Sheet

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



RAID® FLYING INSECT KILLER FORMULA 6 - OUTDOOR FRESH

Version 5.0

Print Date 09/13/2012

Revision Date 09/13/2012

MSDS Number 350000010286

SITE_FORM Number
30000000000000008805.002

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Avoid contact with skin, eyes and clothing.
Do not puncture or incinerate.
Do not enter places where used or stored until adequately ventilated.
Avoid breathing vapors, mist or gas.
For personal protection see section 8.
Do not spray toward face.
Do not use in areas without adequate ventilation.
Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.

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

Storage

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

Material Safety Data Sheet

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



RAID® FLYING INSECT KILLER FORMULA 6 - OUTDOOR FRESH

Version 5.0

Print Date 09/13/2012

Revision Date 09/13/2012

MSDS Number 350000010286

SITE_FORM Number
300000000000000008805.002

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Butane	106-97-8	-	1,000 ppm	-	ACGIH TWA
Distillates (petroleum), hydrotreated light	64742-47-8	1,200 mg/m3	152 ppm	-	SUPPLIER
Propane	74-98-6	1,800 mg/m3	1,000 ppm	-	OSHA TWA
Propane	74-98-6	-	1,000 ppm	-	ACGIH TWA
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH TWA

Personal protective equipment

Respiratory protection

Use only with adequate ventilation.
Do not spray in enclosed areas.

Hand protection

: If prolonged or repeated contact is possible:
Wear suitable gloves.

Eye protection

No special requirements.

Skin and body protection

: No special requirements.

Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : aerosol
Color : opaque
Odor : characteristic
pH : 5.5 - 8.0

Material Safety Data Sheet

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



RAID® FLYING INSECT KILLER FORMULA 6 - OUTDOOR FRESH

Version 5.0

Print Date 09/13/2012

Revision Date 09/13/2012

MSDS Number 350000010286

SITE_FORM Number

300000000000000008805.002

Boiling point	:	no data available
Freezing point	:	no data available
Flash point	:	< -7 °C < 19.4 °F Method: Tag Closed Cup (TCC) Propellant
Evaporation rate	:	no data available
Flammability (solid, gas)	:	no data available
Auto-ignition 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
Viscosity, dynamic	:	no data available
Volatile Organic Compounds Total VOC (wt. %)*	:	19 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations

10. STABILITY AND REACTIVITY

Conditions to avoid	:	Heat, flames and sparks.
Materials to avoid	:	Strong oxidizing agents
Hazardous decomposition products	:	Thermal decomposition can lead to release of irritating gases and vapours.
Hazardous reactions	:	Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50
---------------------	---	------

Material Safety Data Sheet

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



RAID® FLYING INSECT KILLER FORMULA 6 - OUTDOOR FRESH

Version 5.0

Print Date 09/13/2012

Revision Date 09/13/2012

MSDS Number 350000010286
SITE_FORM Number
30000000000000008805.002

estimated
5,000 mg/kg

- Acute inhalation toxicity : LC50
estimated
> 2.2 mg/l
- Acute dermal toxicity : LD50
estimated
> 5,000 mg/kg
- 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** : Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

PESTICIDAL WASTE:
Observe all applicable Federal, Provincial and State
regulations and Local/Municipal ordinances regarding
disposal.
Consumer may discard empty container in trash, or recycle
where facilities exist.

- RCRA waste class : D001 (Ignitable Waste)

Material Safety Data Sheet

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



RAID® FLYING INSECT KILLER FORMULA 6 - OUTDOOR FRESH

Version 5.0

Print Date 09/13/2012

Revision Date 09/13/2012

MSDS Number 350000010286
SITE_FORM Number
300000000000000008805.002

SCJ product category : AF: Aerosol Flammable

14. TRANSPORT INFORMATION

Land transport

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

Proper shipping name UN 1950 AEROSOLS, Flammable, 2.1, LTD QTY
Class: 2.1
UN number 1950
Packaging group: None.
Note: SC Johnson ships this product as INSECTICIDES OR INSECT REPELLENTS, NOI, OTHER THAN POISON.

Sea transport

▪ *IMDG:*

Proper shipping name UN 1950 AEROSOLS, Flammable, 2.1, LTD QTY
Class: 2
UN number: 1950
Packaging group: None.
EmS: F-D, S-U
Note: Limited quantities derogation may be applicable to this product, please check transport documents.

Air transport

▪ *ICAO/IATA:*

Proper shipping name UN 1950 AEROSOLS, Flammable, 2.1, LTD QTY
Class: 2.1
UN/ID No.: UN 1950
Packaging group: None.
Note: SC Johnson typically does not ship products via air. 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.

Registration # / Agency

Material Safety Data Sheet

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



RAID® FLYING INSECT KILLER FORMULA 6 - OUTDOOR FRESH

Version 5.0

Print Date 09/13/2012

Revision Date 09/13/2012

MSDS Number 350000010286

SITE_FORM Number
300000000000000008805.002

4822-513/US/EPA

16. OTHER INFORMATION

HMIS Ratings

Health	1
Flammability	4
Reactivity	0

NFPA Ratings

Health	1
Fire	4
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)
--------------	--