

Material Safety Data Sheet

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



RAID® MOSQUITO AND FLY KILLER 1 (REG. NO. 30641 P.C.P.ACT)

Version 3.0

Print Date 01/12/2016

Revision Date 01/08/2016

MSDS Number 350000010614

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Trade name : RAID® MOSQUITO AND FLY KILLER 1 (REG. NO. 30641 P.C.P.ACT)

Use of the Substance/Mixture : Insecticide

Company : S.C. Johnson and Son, Limited
1 Webster Street
Brantford ON N3T 5R1

Emergency telephone number : 24 Hour Transport & Medical Emergency Phone (866) 231-5406
24 Hour International Emergency Phone (952) 852-4647
24 Hour Canadian Transport Emergency Phone (CANUTEC) (613) 996-6666

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance / Odor : colourless / aerosol / characteristic

Immediate Concerns

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

Potential Health Effects

Exposure routes : Eye, Skin, Inhalation, Ingestion.

Eyes : May cause:
Mild eye irritation

Skin : May cause skin reactions in rare cases.
May cause systemic effects.
May be harmful if absorbed through skin.

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

Ingestion : May cause abdominal discomfort.

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Aggravated Medical Condition : 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
Isobutane	75-28-5	10.00 - 30.00
Propane	74-98-6	1.00 - 5.00
Distillates (petroleum), hydrotreated light	64742-47-8	1.00 - 5.00
Piperonyl butoxide	51-03-6	0.10 - 1.00
Pyrethrum	8003-34-7	0.10 - 1.00

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

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 immediately. Remove contaminated clothing and shoes. 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.

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.

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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)
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.

7. HANDLING AND STORAGE

Handling

Advice on safe handling	: Do not puncture or incinerate. Do not enter places where used or stored until adequately ventilated. Avoid breathing vapours, mist or gas. 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. Smoking, eating and drinking should be prohibited in the application area.
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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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

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

Personal protective equipment

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

Hand protection : Rubber 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. Smoking, eating and drinking should be prohibited in the application area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : aerosol

Color : colourless

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Odor	:	characteristic
pH	:	Not applicable
Melting point	:	No data available
Boiling point	:	No data available
Freezing point	:	No data available
Flash point	:	< -7 °C < 19.4 °F Method: Tag Closed Cup (TCC)
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	:	Not applicable
Density	:	0.804 g/cm ³
Water solubility	:	partly soluble
Partition coefficient: n-octanol/water	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	Not applicable
Relative vapour density	:	No data available
Volatile Organic Compounds Total VOC (wt. %)*	:	30.2 % - 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	:	None known.
Hazardous decomposition	:	Thermal decomposition can lead to release of irritating gases

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products and vapours.

Thermal decomposition : Note: No data available

Hazardous reactions : Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50
estimated
> 5,000 mg/kg

Acute inhalation toxicity : LC50
> 9.2 mg/l

Acute dermal toxicity : LD50
estimated
> 2,000 mg/kg

Chronic effects

Carcinogenicity : No data available

Mutagenicity : None Anticipated

Reproductive effects : No data available

Teratogenicity : No data available

Sensitisation : Not known to be a sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects : No data available

13. DISPOSAL CONSIDERATIONS

PESTICIDAL WASTE:

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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.

14. TRANSPORT INFORMATION

Land transport

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

Proper shipping name UN 1950 AEROSOLS, Flammable, 2.1, Marine Pollutant
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, Marine Pollutant
Class: 2
UN number: 1950
Packaging group: None.
EmS: F-D, S-U
Marine pollutant: Marine pollutant
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, Marine Pollutant
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.

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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.

16. OTHER INFORMATION

HMIS Ratings

Health	1
Flammability	4
Reactivity	0

NFPA Ratings

Health	1
Fire	4
Reactivity	0
Special	-

This information is being provided in accordance with Occupational Safety and Health Administration (OSHA) and Canada's Workplace Hazard Material Information System (WHMIS) regulations. The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

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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