

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



# RAID® MAX FOAMING WASP & HORNET KILLER (EPA Reg. No. 4822-611)

Version 1.1

Print Date 06/02/2017

Revision Date 06/02/2017

SDS Number 350000030552

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product information

- Product name** : RAID® MAX FOAMING WASP & HORNET KILLER (EPA Reg. No. 4822-611)
- Recommended use** : Insecticide
- Restrictions on use** : Use only as directed on label
- Manufacturer, importer, supplier** : S.C. Johnson & Son, Inc.  
1525 Howe Street  
Racine WI 53403-2236
- Telephone** : +1-800-558-5252
- 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

### Classification of the substance or mixture

#### Globally Harmonized System (GHS) Classification

Hazard classification	Hazard category	Hazards identification
Aerosol	Category 1	Extremely flammable aerosol.
Gases under pressure	Liquefied gas	Contains gas under pressure; may explode if heated.

### Labelling

#### Hazard symbols

Flame  
Gas cylinder

#### Signal word

Danger

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### Hazard statements

Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.

### Precautionary statements

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
Protect from sunlight. Store in a well-ventilated place.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.

**Other hazards** : None identified

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
Isobutane	75-28-5	5.00 - 10.00
Isopropanol	67-63-0	1.00 - 5.00
Distillates (petroleum), hydrotreated light	64742-47-8	1.00 - 5.00
Cypermethrin	52315-07-8	0.10 - 1.00
Prallethrin	23031-36-9	0.0001 - 0.10

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see [www.whatsinsidescjohnson.com](http://www.whatsinsidescjohnson.com).

## 4. FIRST AID MEASURES

### Description of first aid measures

**Eye contact** : No special requirements  
**Skin contact** : No special requirements  
**Inhalation** : No special requirements.

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**Ingestion** : No special requirements

**Most important symptoms and effects, both acute and delayed**

**Indication of any immediate medical attention and special treatment needed**

See Description of first aid measures unless otherwise stated.

**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.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions** : Remove all sources of ignition.  
Wear personal protective equipment.  
Wash thoroughly after handling.

**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 and materials for containment and cleaning up** : If damage occurs to aerosol can:  
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite)

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and transfer to a container for disposal according to local / national regulations (see section 13).  
Use only non-sparking equipment.  
Dike large spills.  
Clean residue from spill site.

**7. HANDLING AND STORAGE**

**Handling**

**Precautions for safe handling**

: Avoid contact with skin, eyes and clothing.  
Do not enter places where used or stored until adequately ventilated.  
For personal protection see section 8.  
Use only as directed.  
**KEEP OUT OF REACH OF CHILDREN AND PETS.**  
Pressurized container.  
Do not pierce or burn, even after use.

**Advice on protection against fire and explosion**

: Keep away from sources of ignition - No smoking.  
Do not spray on an open flame or other ignition source.

**Storage**

**Requirements for storage areas and containers**

: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
Keep away from food, drink and animal feedingstuffs.  
Keep in a dry, cool and well-ventilated place.

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

Components	CAS-No.	mg/m <sup>3</sup>	ppm	Non-standard units	Basis
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH STEL
Isopropanol	67-63-0	980 mg/m <sup>3</sup>	400 ppm	-	OSHA TWA
Isopropanol	67-63-0	-	400 ppm	-	ACGIH STEL
Isopropanol	67-63-0	-	200 ppm	-	ACGIH TWA
Distillates (petroleum), hydrotreated light	64742-47-8	1,200 mg/m <sup>3</sup>	152 ppm	-	SUPPLIER

**Personal protective equipment****Respiratory protection** : Do not spray in enclosed areas.**Hand protection** : No special requirements.**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** : off-white

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<b>Odour</b>	: solvent-like
<b>Odour Threshold</b>	: Test not applicable for this product type
<b>pH</b>	: Test not applicable for this product type
<b>Melting point/freezing point</b>	: Test not applicable for this product type
<b>Initial boiling point and boiling range</b>	: Test not applicable for this product type
<b>Flash point</b>	: < 20 °C < 68 °F Propellant 39.1 °C 102.38 °F Method: Pensky Martens closed cup liquid
<b>Evaporation rate</b>	: Test not applicable for this product type
<b>Flammability (solid, gas)</b>	: Sustains combustion
<b>Upper/lower flammability or explosive limits</b>	: Test not applicable for this product type
<b>Vapour pressure</b>	: Test not applicable for this product type
<b>Vapour density</b>	: Test not applicable for this product type
<b>Relative density</b>	: 0.9350 g/cm <sup>3</sup> at 20 °C Calculated

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<b>Solubility(ies)</b>	: partly soluble	
<b>Partition coefficient: n-octanol/water</b>	: Test not applicable for this product type	
<b>Auto-ignition temperature</b>	: Test not applicable for this product type	
<b>Decomposition temperature</b>	: Test not applicable for this product type	
<b>Viscosity, dynamic</b>	: 1.52 mPa.s at 20 °C	
<b>Viscosity, kinematic</b>	: 1.54 mm <sup>2</sup> /s at 20 °C	
<b>Oxidizing properties</b>	: Test not applicable for this product type	
<b>Volatile Organic Compounds Total VOC (wt. %)*</b>	: 9.6 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations	
<b>Other information</b>	: None identified	:

**10. STABILITY AND REACTIVITY**

<b>Possibility of hazardous reactions</b>	: Stable under recommended storage conditions.
<b>Conditions to avoid</b>	: Heat, flames and sparks.
<b>Incompatible materials</b>	: Strong oxidizing agents

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**Hazardous decomposition products** : Thermal decomposition can lead to release of irritating gases and vapours.

## 11. TOXICOLOGICAL INFORMATION

**Acute oral toxicity** : LD50 > 5000 mg/kg

**Acute inhalation toxicity** : LC50 > 10 mg/L

**Acute dermal toxicity** : LD50 > 5000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	Oral
Acute toxicity	No classification proposed	Dermal
Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single	No classification proposed	-



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exposure		
Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

**Aggravated Medical Condition** : None known.

## 12. ECOLOGICAL INFORMATION

**Product** : The product itself has not been tested.

### Toxicity

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

### Toxicity to fish

Components	End point	Species	Value	Exposure time
Isobutane	LC50 QSAR	Fish	27.98 mg/l	96 h
Isopropanol	flow-through test LC50	Pimephales promelas (fathead minnow)	9,640 mg/l	96 h
Distillates (petroleum), hydrotreated light	static test LC50 OECD Test Guideline 203	Oncorhynchus mykiss (rainbow trout)	> 1,000 mg/l	96 h
Cypermethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.00283 mg/l	96 h
	NOEC	Pimephales promelas	0.00001	28 d

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		(fathead minnow)	mg/l	
Prallethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.012 mg/l	96 h
	flow-through test NOEC	Oncorhynchus mykiss (rainbow trout)	0.003 mg/l	90 d

**Toxicity to aquatic invertebrates**

Components	End point	Species	Value	Exposure time
Isobutane	LC50 QSAR	Daphnid	16.33 mg/l	48 h
Isopropanol	semi-static test NOEC	Daphnia magna	30 mg/l	21 d
Distillates (petroleum), hydrotreated light	EC50 OECD Test Guideline 202	Daphnia (water flea)	> 1,000 mg/l	48 h
Cypermethrin	EC50	Daphnia magna (Water flea)	0.00471 mg/l	48 h
	NOEC	Daphnia magna (Water flea)	0.00004 mg/l	21 d
Prallethrin	EC50	Daphnia magna (Water	0.0062	48 h

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		flea)	mg/l	
	NOEC	Daphnia magna	0.00065 mg/l	21 d

**Toxicity to aquatic plants**

Components	End point	Species	Value	Exposure time
Isobutane	EC50 QSAR	Green algae	8.57 mg/l	96 h
Isopropanol	EC50	Desmodesmus subspicatus (green algae)	> 1,000 mg/l	72 h
Distillates (petroleum), hydrotreated light	ErC50 OECD Test Guideline 201	Pseudokirchneriella subcapitata (green algae)	> 1,000 mg/l	72 h
Cypermethrin	ErC50	Selenastrum capricornutum, Skeletonema costatum	> 0.0033 mg/l	72 h
Prallethrin	EC50	Pseudokirchneriella subcapitata (green algae)	2 mg/l	96 h

**Persistence and degradability**

Component	Biodegradation	Exposure time	Summary
Isobutane	70 %	< 10 d	Readily biodegradable.
Isopropanol	78 %	20 d	Readily biodegradable.
Distillates (petroleum), hydrotreated light	69 %	28 d	Readily biodegradable.
Cypermethrin	0.6 - 1.4 %	33 d	Not readily biodegradable.

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Prallethrin	No data available	Not readily biodegradable.
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**Bioaccumulative potential**

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Isobutane	1.57 - 1.97	2.8
Isopropanol	< 100	0.05
Distillates (petroleum), hydrotreated light	61 - 159	No data available
Cypermethrin	373.4 Measured	5.3 - 5.6
Prallethrin	No data available	4.49

**Mobility**

Component	End point	Value
Isobutane	No data available	
Isopropanol	Koc	1.1 estimated
Distillates (petroleum), hydrotreated light	No data available	
Cypermethrin	Koc	80653 - 574360
Prallethrin	No data available	

**PBT and vPvB assessment**

Component	Results
Isobutane	Not fulfilling PBT and vPvB criteria
Isopropanol	Not fulfilling PBT and vPvB criteria
Distillates (petroleum), hydrotreated light	Not fulfilling PBT and vPvB criteria
Cypermethrin	Not fulfilling PBT and vPvB criteria
Prallethrin	Not fulfilling PBT and vPvB criteria

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**Other adverse effects** : None known.

**13. DISPOSAL CONSIDERATIONS**

**PESTICIDAL WASTE:**

For disposal information, please read and follow Disposal instructions on the pesticide label. Consumer may discard empty container in trash, or recycle where facilities exist.

**14. TRANSPORT INFORMATION**

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

	<b>Land transport</b>	<b>Sea transport</b>	<b>Air transport</b>
<b>UN number</b>	1950	1950	1950
<b>UN proper shipping name</b>	Aerosols, Flammable (Cypermethrin, Prallethrin), Marine Pollutant	Aerosols, Flammable (Cypermethrin, Prallethrin), Marine Pollutant	Aerosols, Flammable (Cypermethrin, Prallethrin), Marine Pollutant
<b>Transport hazard class(es)</b>	2.1	2	2.1
<b>Packing group</b>	-	-	-
<b>Environmental hazards</b>	-	Marine pollutant	-
<b>Special precautions for user</b>	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Product not transported as bulk.	Product not transported as bulk.	Product not transported as bulk.

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**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., This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. OTHER INFORMATION**

**HMIS Ratings**

<b>Health</b>	0
<b>Flammability</b>	4
<b>Reactivity</b>	0

**NFPA Ratings**

<b>Health</b>	0
<b>Fire</b>	4
<b>Reactivity</b>	0
<b>Special</b>	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

**Further information**

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