

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 08/23/2017

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

Hazard statements

Extremely flammable aerosol.

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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.

4. FIRST AID MEASURES

Description of first aid measures

Eye contact : No special requirements

Skin contact : No special requirements

Inhalation : No special requirements.

Ingestion : No special requirements

Most important symptoms and effects, both acute and delayed

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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) 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.

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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 ³	ppm	Non-standard units	Basis
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH STEL
Isopropanol	67-63-0	980 mg/m ³	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 ³	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**Odour** : solvent-like

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Odour Threshold : Test not applicable for this product type

pH : Test not applicable for this product type

Melting point/freezing point : Test not applicable for this product type

Initial boiling point and boiling range : Test not applicable for this product type

Flash point : < 20 °C
< 68 °F
Propellant
39.1 °C
102.38 °F
Method: Pensky Martens closed cup liquid

Evaporation rate : Test not applicable for this product type

Flammability (solid, gas) : Sustains combustion

Upper/lower flammability or explosive limits : Test not applicable for this product type

Vapour pressure : Test not applicable for this product type

Vapour density : Test not applicable for this product type

Relative density : 0.9350 g/cm³ at 20 °C Calculated

Solubility(ies) : partly soluble

Partition coefficient: n- : Test not applicable for this product type

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octanol/water

Auto-ignition temperature : Test not applicable for this product type

Decomposition temperature : Test not applicable for this product type

Viscosity, dynamic : 1.52 mPa.s
at 20 °C

Viscosity, kinematic : 1.54 mm²/s
at 20 °C

Oxidizing properties : Test not applicable for this product type

Volatile Organic Compounds : 9.6 % - additional exemptions may apply
Total VOC (wt. %)* *as defined by US Federal and State Consumer Product Regulations

Other information : None identified :

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions : Stable under recommended storage conditions.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents

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

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

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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 (fathead minnow)	0.00001 mg/l	28 d
Prallethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.012 mg/l	96 h

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	flow-through test NOEC	Oncorhynchus mykiss (rainbow trout)	0.003 mg/l	90 d
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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 flea)	0.0062 mg/l	48 h
	NOEC	Daphnia magna	0.00065 mg/l	21 d

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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.
Prallethrin	No data available		Not readily biodegradable.

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)

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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

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.

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14. TRANSPORT INFORMATION

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

	Land transport	Sea transport	Air transport
UN number	1950	1950	1950
UN proper shipping name	Aerosols, Flammable (Cypermethrin, Prallethrin), Marine Pollutant	Aerosols, Flammable (Cypermethrin, Prallethrin), Marine Pollutant	Aerosols, Flammable (Cypermethrin, Prallethrin), Marine Pollutant
Transport hazard class(es)	2.1	2	2.1
Packing group	-	-	-
Environmental hazards	-	Marine pollutant	-
Special precautions for user	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.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Product not transported as bulk.	Product not transported as bulk.	Product not transported as bulk.

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.

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16. OTHER INFORMATION

HMIS Ratings

Health	0
Flammability	4
Reactivity	0

NFPA Ratings

Health	0
Fire	4
Reactivity	0
Special	-

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

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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