

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



RAID MAX® BUG BARRIER DEFENSE MARKER®

Version 1.0

Print Date 03/04/2015

Revision Date 02/24/2015

SDS Number 350000023518

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : RAID MAX® BUG BARRIER DEFENSE MARKER®

Recommended use : Insecticide

Manufacturer, importer, supplier : S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236

Telephone : +18005585252
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

This product does not meet the criteria for classification in any hazard class according to regulation OSHA 29 CFR 1910.1200.

Labelling

Precautionary statements

Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Deltamethrin	52918-63-5	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

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

5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during firefighting	: Container may melt and leak 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. 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	: 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	: 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

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ventilated.
For personal protection see section 8.
Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers : Keep container closed when not in use.
Keep away from food, drink and animal feedingstuffs.
Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

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 : viscous liquid

Color : translucent

Odor : pleasant

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Odour Threshold	: No data available
pH	: 5.4 at (23.2 °C)
Melting point/freezing point	: 32 °F
Initial boiling point and boiling range	: No data available
Flash point	: does not flash
Evaporation rate	: No data available
Flammability (solid, gas)	: Does not sustain combustion.
Upper/lower flammability or explosive limits	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: 8.3 lb/gal at 21 °C
Solubility(ies)	: completely soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available

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Viscosity, dynamic	: 750 cps at 25 °C	
Viscosity, kinematic	: No data available	
Oxidizing properties	: No data available	
Volatile Organic Compounds Total VOC (wt. %)*	: 0 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations	
Other information	: None identified	:

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	: No data available
Possibility of hazardous reactions	: If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated.
Conditions to avoid	: Direct sources of heat.
Incompatible materials	: Do not mix with bleach or any other household cleaners. Strong bases
Hazardous decomposition products	: Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Emergency Overview	: This product does not meet the criteria for classification in any hazard class according to regulation OSHA 29 CFR 1910.1200.
Acute oral toxicity	: NA GHS LD50

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> 5,050 mg/kg

Acute inhalation toxicity : NA GHS LC50 (dust and mist)
> 3.10 mg/l

Acute dermal toxicity : NA GHS LD50
> 5,050 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	-
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	-

Aggravated Medical Condition : None known.

12. ECOLOGICAL INFORMATION

Product : The product itself has not been tested.

Toxicity

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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
Deltamethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.00026 mg/l	96 h
	NOEC		0.000017 mg/l	260 d

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Deltamethrin	LC50	Gammarus fasciatus (freshwater shrimp)	> 0.00001 mg/l	96 h
	NOEC	Daphnia magna (Water flea)	0.000004 mg/l	21 d

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Deltamethrin	ErC50	Chlorella vulgaris (Fresh water algae)	> 0.47 mg/l	96 h

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Deltamethrin	No data available		Not readily biodegradable.

Bioaccumulative potential

Component	Bioconcentration	Partition Coefficient n-
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	factor (BCF)	Octanol/water (log)
Deltamethrin	1,400 Measured	4.6

Mobility

Component	End point	Value
Deltamethrin	Koc	204000 - 577000

PBT and vPvB assessment

Component	Results
Deltamethrin	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.

14. TRANSPORT INFORMATION

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

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	Land transport	Sea transport	Air transport
UN number	3082	3082	3082
UN proper shipping name	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Deltamethrin), 9, III , LTD QTY	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Deltamethrin), 9, III , LTD QTY	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Deltamethrin), 9, III , LTD QTY
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Environmental hazards	-	-	-
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.

15. REGULATORY INFORMATION**FIFRA Labeling**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Following is the hazard information as required on the pesticide label:

CAUTION:

Contact with product may result in transient tingling and reddening of the skin.

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 :

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State Right To Know

No components are subject to the Massachusetts Right to Know Act.		
Minnesota HSL	Propylene glycol	57-55-6
New Jersey HRTK	Propylene glycol	57-55-6
Pennsylvania RTKL	Water	7732-18-5

Registration # / Agency

4822-597/US/EPA

16. OTHER INFORMATION**HMIS Ratings**

Health	1
Flammability	0
Reactivity	0

NFPA Ratings

Health	1
Fire	0
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.

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Further information

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