

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Raid Max No Mess Dry Fogger (EPA Reg. No. 4822-601)

Version 2.0

Print Date 03/11/2019

Revision Date 03/09/2016

SDS Number 350000011336

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : Raid Max No Mess Dry Fogger (EPA Reg. No. 4822-601)

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

Hazard classification	Hazard category	Hazards identification
Acute toxicity	Category 4	Harmful if swallowed.
Skin irritation	Category 2	Causes skin irritation.
Serious eye damage	Category 1	Causes serious eye damage.
Specific target organ toxicity - single exposure	Category 3	May cause respiratory irritation.

Labelling

Hazard symbols

Corrosion
Exclamation mark

Signal word

Danger

Hazard statements

Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
May cause respiratory irritation.

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Precautionary statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Immediately call a POISON CENTER or doctor/ physician.
Specific treatment (see supplemental first aid instructions on this label).
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Rinse mouth.
Take off contaminated clothing and wash before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/ container to an approved incineration plant.
Wear protective gloves/ eye protection/ face protection.
Avoid breathing spray.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Calcium oxide	1305-78-8	60.00 - 100.00
Magnesium oxide	1309-48-4	1.00 - 5.00

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

Eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

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- Skin contact** : Wash off with plenty of water. Take off contaminated clothing and wash before reuse.
- Inhalation** : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- Ingestion** : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Dry chemical
- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Extinguishing media which shall not be used for safety reasons** : Water Halons
- Specific hazards during firefighting** : 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** : Avoid breathing dust. Refer to protective measures listed in sections 7 and 8.
- Personal precautions** : Wear personal protective equipment. Wash thoroughly after handling.
- Environmental precautions** : Do not contaminate surface water.
- Environmental** : Do not flush into surface water or sanitary sewer system.

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precautions

Use appropriate containment to avoid environmental contamination.
Outside of normal use, avoid release to the environment.

Methods and materials for containment and cleaning up

: Sweep up and shovel into suitable containers for disposal.
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.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.

Advice on protection against fire and explosion

: Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers

: Keep away from food, drink and animal feedingstuffs.
Keep in a dry, cool and well-ventilated place.
Store locked up.
Store in a well-ventilated place.
Keep container tightly closed.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Calcium oxide	1305-78-8	5 mg/m3	-	-	OSHA TWA
Calcium oxide	1305-78-8	2 mg/m3	-	-	ACGIH TWA
Magnesium oxide	1309-48-4	15 mg/m3	-	-	OSHA TWA
Magnesium oxide	1309-48-4	10 mg/m3	-	-	ACGIH TWA

Personal protective equipment

- Respiratory protection** : No personal respiratory protective equipment normally required.
- Hand protection** : Wear suitable gloves.
- Eye protection** : Wear splash-resistant Chemical goggles.
- 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** : pellets
- Color** : white
- Odor** : odourless

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Odour Threshold : No data available

pH : alkaline

Melting point/freezing point : No data available

Initial boiling point and boiling range : 2,850 °C

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : No data available

Upper/lower flammability or explosive limits : No data available

Vapour pressure : Not applicable

Vapour density : No data available

Relative density : No data available

Solubility(ies) : soluble

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

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- Decomposition temperature** :
- Viscosity, dynamic** : No data available
- 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** : Reacts with water to form Ca(OH)_2 and heat.
Stable under recommended storage conditions.
- Conditions to avoid** : Direct sources of heat.
- Incompatible materials** : Avoid contact with:
Strong acids
Avoid moisture.
- Hazardous decomposition products** : Thermal decomposition can lead to release of irritating gases and vapours.
Reacts with water to form Ca(OH)_2 and heat.

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11. TOXICOLOGICAL INFORMATION

Emergency Overview	: Danger
Acute oral toxicity	: LD50
Acute inhalation toxicity	: LC50 > 10 mg/L
Acute dermal toxicity	: LD50 > 5000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	Category 4	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 irritation	Category 2	-
Serious eye damage	Category 1	-
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	Category 3	-
Specific target organ toxicity - repeated	No classification proposed	-

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exposure		
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
Calcium oxide	LC50 Read-across (Analogy)	Oncorhynchus mykiss (rainbow trout)	50.6 mg/l	96 h
Magnesium oxide	No data available			
Calcium oxide	LC50 Read-across (Analogy)	Oncorhynchus mykiss (rainbow trout)	50.6 mg/l	96 h
Magnesium oxide	No data available			

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
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Calcium oxide	EC50 Read- across (Analogy)	Daphnia magna (Water flea)	49.1 mg/l	48 h
Magnesium oxide	No data available			
Calcium oxide	EC50 Read- across (Analogy)	Daphnia magna (Water flea)	49.1 mg/l	48 h
Magnesium oxide	No data available			

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Calcium oxide	EC50 Read- across (Analogy)	Pseudokirchneriella subcapitata (green algae)	184.57 mg/l	72 h
Magnesium oxide	No data available			
Calcium oxide	EC50 Read- across (Analogy)	Pseudokirchneriella subcapitata (green algae)	184.57 mg/l	72 h
Magnesium oxide	No data available			

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Calcium oxide	No data available		

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Magnesium oxide	No data available		
Calcium oxide	No data available		
Magnesium oxide	No data available		

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Calcium oxide	No data available	No data available
Magnesium oxide	No data available	No data available
Calcium oxide	No data available	No data available
Magnesium oxide	No data available	No data available

Mobility

Component	End point	Value
Calcium oxide	No data available	
Magnesium oxide	No data available	
Calcium oxide	No data available	
Magnesium oxide	No data available	

PBT and vPvB assessment

Component	Results
Calcium oxide	Not fulfilling PBT and vPvB criteria
Calcium oxide	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.

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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.

	Land transport	Sea transport	Air transport
UN number	1910	1910	1910
UN proper shipping name	Calcium Oxide	Calcium Oxide	Calcium Oxide
Transport hazard class(es)	8	8	8
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

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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16. OTHER INFORMATION

HMIS Ratings

Health	2
Flammability	0
Reactivity	1

NFPA Ratings

Health	3
Fire	0
Reactivity	1
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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SDS Number 350000033580

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : Raid Max No Mess Dry Fogger (EPA Reg. No. 4822-601)

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
Self-reactive substances and mixtures	Type E	Heating may cause a fire.

Labelling

Hazard symbols

Flame

Signal word

Warning

Hazard statements

Heating may cause a fire.

Precautionary statements

In case of fire: Use alcohol-resistant foam, carbon dioxide or dry sand to extinguish.

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Store in a well-ventilated place. Keep cool.
Store away from other materials.
Dispose of contents/ container to an approved incineration plant.
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep/Store away from clothing/ combustible materials.
Keep only in original container.
Wear protective gloves.
Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
Azodicarbonamide	123-77-3	60.00 - 100.00
Etofenprox	80844-07-1	5.00 - 10.00
Silica	7631-86-9	1.00 - 5.00

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

Eyes : No adverse effects expected when used as directed.

Skin effect : No adverse effects expected when used as directed.

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Inhalation : No adverse effects expected when used as directed.

Ingestion : No adverse effects expected when used as directed.

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 : 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.
Wear protective gloves/ eye protection/ face protection.

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 : Sweep up and shovel into suitable containers for disposal.
Clean residue from spill site.

7. HANDLING AND STORAGE

Handling

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- 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.
- Advice on protection against fire and explosion** : Keep away from sources of ignition - No smoking.
Keep away from combustible material.
- Storage**
- Requirements for storage areas and containers** : Keep away from food, drink and animal feedingstuffs.
Store in a well-ventilated place. Keep cool.
Protect from sunlight.
Store away from other materials.
Store in original container.
- Other data** : Stable under normal conditions.
Keep in a dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m ³	ppm	Non-standard units	Basis
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Personal protective equipment

- Respiratory protection** : No special requirements.
- 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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: solid
Color	: yellow orange
Odour	: floral
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	: Test not applicable for this product type
Evaporation rate	: Test not applicable for this product type
Flammability (solid, gas)	: Does not sustain 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	: 1.7 g/cm ³ at 23 °C
Solubility(ies)	: slightly soluble

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Partition coefficient: n-octanol/water	: Test not applicable for this product type
Auto-ignition temperature	: Test not applicable for this product type
Decomposition temperature	: Decomposes on heating., Heating can release hazardous gases., Fire or intense heat may cause violent rupture of packages., Do not attempt to verify melting point; decomposition can be violent., Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)., Ammonia gas may be liberated at high temperatures.
Viscosity, dynamic	: Test not applicable for this product type
Viscosity, kinematic	: Test not applicable for this product type
Oxidizing properties	: Test not applicable for this product type
Volatile Organic Compounds Total VOC (wt. %)*	: 0.1 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations
Other information	: None identified :

10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Stable under recommended storage conditions.
Conditions to avoid	: Direct sources of heat.

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- Incompatible materials** : Strong oxidizing agents
Strong acids and strong bases
Reducing agents
- Incompatible materials** : Strong oxidizing agents
- 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 587 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 - 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	-

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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

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
Azodicarbonamide	semi-static test EC50	Pimephales promelas (fathead minnow)	> 50 mg/l	96 h
Etofenprox	No data available			
Silica	static test LC50	Danio rerio (zebra fish)	5,000 mg/l	96 h

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time

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Azodicarbonamide	EC50	Daphnia magna (Water flea)	11 mg/l	48 h
	semi-static test NOEC	Daphnia magna	2.89 mg/l	21 d
Etofenprox	No data available			
Silica	EC50	Ceriodaphnia dubia	7,600 mg/l	48 h

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Azodicarbonamide	static test EC50	Desmodosmus subspicatus (green algae)	> 36.1 mg/l	72 h
Etofenprox	No data available			
Silica	EC50	Selenastrum capricornutum, Skeletonema costatum	440 mg/l	72 h

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Azodicarbonamide	6 %	28 d	Not readily biodegradable.
Etofenprox	No data available		
Silica	No data available		

Bioaccumulative potential

Component	Bioconcentration	Partition Coefficient n-

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	factor (BCF)	Octanol/water (log)
Azodicarbonamide	No data available	-1.7
Etofenprox	No data available	No data available
Silica	No data available	0.53

Mobility

Component	End point	Value
Azodicarbonamide	log Koc	< 1.3
Etofenprox	No data available	
Silica	No data available	

PBT and vPvB assessment

Component	Results
Azodicarbonamide	Not fulfilling PBT and vPvB criteria
Silica	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	3242	3242	3242
UN proper shipping name	Azodicarbonamide Mixture, Marine Pollutant	Azodicarbonamide Mixture, Marine Pollutant	Azodicarbonamide Mixture, Marine Pollutant
Transport hazard class(es)	4.1	4.1	4.1
Packing group	II	II	-
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**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:

Causes moderate eye irritation.

Repeated exposure to Etofenprox can cause skin irritation.

When metal can comes in contact with the water, and for 30 minutes thereafter, the metal can will be hot.

Notification status : All ingredients of this product are listed or are excluded from

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Raid Max No Mess Dry Fogger (EPA Reg. No. 4822-601)

Version 2.0

Print Date 03/11/2019

Revision Date 03/20/2018

SDS Number 350000033580

listing on the U.S. Toxic Substances Control Act (TSCA)
Chemical Substance Inventory.

16. OTHER INFORMATION

HMIS Ratings

Health	1
Flammability	0
Reactivity	1

NFPA Ratings

Health	1
Fire	0
Reactivity	1
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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