

**SAFETY DATA SHEET**

(according to Regulation (EC) No. 1907/2006)



**RAID Protector - Fly, Wasp & Mosquito Killer**

Version 1.0  
Revision Date 04.03.2014

Print Date 31.07.2014  
Specification Number: 350000007944  
SITE FORM Number:  
30000000000000006983.003

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier : RAID Protector - Fly, Wasp & Mosquito Killer
  
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
Use of the Substance/Mixture : Biocidal products (e.g. Disinfectants, pest control)  
  
Uses advised against : None identified
  
- 1.3 Details of the supplier of the safety data sheet : SC Johnson Ltd.  
Frimley Green  
Camberley  
Surrey  
GU16 7AJ  
  
Telephone : +441276852000  
  
E-mail address : ask.uk@scj.com
  
- 1.4 Emergency telephone number : Consumer Care Center:  
UK - 0800 353 353  
Ireland - 1800 409 176

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EU) 1272/2008 with the correlation table 67/548/EEC or 1999/45/EC (Annex VII of CLP)

Hazard classification	Hazard category	Hazards identification
Aerosol	Category 1	Extremely flammable aerosol.
Acute aquatic toxicity	Category 1	Very toxic to aquatic life.
Chronic aquatic toxicity	Category 1	Very toxic to aquatic life with long lasting effects.

**2.2 Label elements**

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

**Hazard symbols**



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Danger

**Active Ingredients (BPR)**

Pyrethrins and Pyrethroids 0.25% (0.25g/100g)

2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether 1.05% (1.05g/100g)

**Hazard statements**

(H222) Extremely flammable aerosol.

(H229) Pressurized container: May burst if heated.

(H410) Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

(P101) If medical advice is needed, have product container or label at hand.

(P102) Keep out of reach of children.

(P410 + P412) Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

(P210) Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(P211) Do not spray on an open flame or other ignition source.

(P251) Do not pierce or burn, even after use.

**Additional Labelling**

Caution

Use only as directed.

Store away from food, beverages and pet food.

Remove or cover terrariums, aquariums and animal cages before application.

Turn off aquarium air-filter during use.

Remove or cover food, food preparation equipment and eating utensils.

Do not spray onto people or pets.

Do not spray onto wall paper and keep spray at least 1 metre away from all surfaces and walls.

Use only in well-ventilated areas.

**2.3 Other hazards**

: Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.  
Excessive exposure to spray mist, fog or vapour may cause respiratory irritation.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components**

Chemical Name	CAS-No./EC No	Reg. No	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight percent

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Isobutane	75-28-5/200-857-2	01-2119485395-27	Flammable gases Category 1 H220 Gases under pressure  H280	>= 20.00 - < 30.00
Propane	74-98-6/200-827-9	01-2119486944-21	Flammable gases Category 1 H220 Gases under pressure  H280	>= 5.00 - < 10.00
2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether	51-03-6/200-076-7	-	Chronic aquatic toxicity Category 1 H410 Acute aquatic toxicity Category 1 H400	>= 1.00 - < 5.00
Distillates (petroleum), hydrotreated light	64742-47-8/927-632-8	01-2119457736-27	Aspiration hazard Category 1 H304	>= 0.10 - < 0.50
Pyrethrins and Pyrethroids	8003-34-7/232-319-8	-	Acute aquatic toxicity Category 1 H400 Chronic aquatic toxicity Category 1 H410 Acute toxicity Category 4 H302	>= 0.10 - < 0.50
disodium hydrogenorthophosphate	7558-79-4/231-448-7	-		>= 0.10 - < 0.50
potassium dihydrogenorthophosphate	7778-77-0/231-913-4	-		>= 0.10 - < 0.50

**Additional Information**

For the full text of the H-Statements mentioned in this Section, see Section 16.

**4. FIRST AID MEASURES****4.1 Description of first aid measures**

Inhalation : Move to fresh air.  
If breathing is affected, get medical attention.

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- Skin contact : Rinse with plenty of water.  
Get medical attention if irritation develops and persists.
- Eye contact : Rinse with plenty of water.  
Get medical attention if irritation develops and persists.
- Ingestion : If symptoms persist, call a physician.

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

- Eyes : May irritate eyes.  
No adverse effects expected when used as directed.
- Skin effect : No adverse effects expected when used as directed.
- Inhalation : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.  
No adverse effects expected when used as directed.  
Excessive exposure to spray mist, fog or vapour may cause respiratory irritation.
- Ingestion : No adverse effects expected when used as directed.

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

See Description of first aid measures unless otherwise stated.

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**5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

- Suitable : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable : High volume water jet

**5.2 Special hazards arising from the substance or mixture**

- : Heating may cause an explosion.  
In case of fire and/or explosion do not breathe fumes.  
Exposure to decomposition products may be a hazard to health.

**Advice for firefighters**

- : In the event of fire, wear self-contained breathing apparatus.  
Wear suitable protective clothing and gloves.  
Refer to current EN or National standard as appropriate.

**5.3 Further information**

- : Use water spray to cool unopened containers.

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Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment.  
Remove all sources of ignition.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
  
- 6.2 Environmental precautions** : Prevent product from entering drains.  
Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Use appropriate containment to avoid environmental contamination.
  
- 6.3 Methods and materials for containment and cleaning up** : If damage occurs to aerosol can:  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Clean residue from spill site.  
Dike large spills.  
Use only non-sparking equipment.
  
- 6.4 Reference to other sections** : For personal protection see section 8.  
For disposal considerations see section 13.

**7. HANDLING AND STORAGE**

- 7.1 Precautions for safe handling** : For personal protection see section 8.  
Do not breathe vapours or spray mist.  
Do not use in areas without adequate ventilation.  
Do not puncture.  
Use explosion-proof equipment.  
Keep away from sources of ignition - No smoking.  
Do not spray on a naked flame or any incandescent material.  
Take measures to prevent the build up of electrostatic charge.
  
- 7.2 Conditions for safe storage, including any incompatibilities** : No smoking.  
Store in cool place.  
Do not freeze.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.  
Keep out of the reach of children.

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No decomposition if stored and applied as directed.

**7.3 Specific end use(s)** : Consumer uses: Private households (= general public = consumers)  
Biocidal products (e.g. Disinfectants, pest control)

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Occupational Exposure Limit Values**

Components	CAS-No.	mg/m <sup>3</sup>	ppm	Form of exposure	List
Pyrethrins and Pyrethroids	8003-34-7	1 mg/m <sup>3</sup>			EUOEL_TWAS
		1 mg/m <sup>3</sup>			UK_WELTWAS
		3 mg/m <sup>3</sup>			UK_WELSTEL

Refer to current EN or National standard as appropriate.

**8.2 Exposure controls**

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection : Wear suitable gloves.  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
Before removing gloves clean them with soap and water.

Eye/face protection : No special requirements.

Skin and body protection : Wash contaminated clothing before re-use.

Other information : Wash hands before breaks and at the end of workday.

Environmental Exposure Controls : Refer to section 6.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance : aerosol

Colour : clear

Odour : Functional

Odour Threshold : no data available

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pH	:	no data available
Melting point/freezing point	:	no data available
Initial boiling point and boiling range	:	no data available
Flash point	:	< -7 °C
Evaporation rate	:	no data available
Flammability (solid, gas)	:	no data available
Upper/lower flammability or explosive limits	:	no data available
Vapour pressure	:	no data available
Vapour density	:	no data available
Relative density	:	no data available
Solubility(ies)	:	no data available
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available
Explosive properties	:	no data available
Oxidizing properties	:	no data available
Other information	:	None identified

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity** : No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability** : Stable under recommended storage conditions.

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**10.3 Possibility of hazardous reactions** : None known.

**10.4 Conditions to avoid** : Heat, flames and sparks.

**10.5 Incompatible materials** : None known.

**10.6 Hazardous decomposition products** : No decomposition if stored and applied as directed.

**11. TOXICOLOGICAL INFORMATION****Information on toxicological effects****Acute oral toxicity**

Name	Method	Species	Dose
Product	EU CLP LD50 Measured	rat	> 5,000 mg/kg

**Acute inhalation toxicity**

Name	Method	Species	Dose	Exposure time
Product	EU CLP LC50 (dust and mist) Measured	rat	> 9.2 mg/l	4 h

**Acute dermal toxicity**

Name	Method	Species	Dose
Product	EU CLP LD50 Measured	rabbit	> 2,000 mg/kg

2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether	EU CLP LD50	rat	5,630 mg/kg
Distillates (petroleum), hydrotreated light	EU CLP LD50	rat	> 5,000 mg/kg
Pyrethrins and Pyrethroids	EU CLP LD50	rat	1,400 mg/kg
disodium hydrogenorthophosphate	EU CLP LD50	rat	> 2,000 mg/kg
potassium dihydrogenorthophosphate	LD50	mouse	1,700 mg/kg

**Acute inhalation toxicity**

Name	Method	Species	Dose	Exposure time
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Isobutane	LC50	rat	658 mg/l	4 h
Propane	LC50	rat	658 mg/l	4 h
2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether	EU CLP LC50 (dust and mist)	rat	> 5.9 mg/l	4 h
Distillates (petroleum), hydrotreated light	EU CLP LC50 (vapour)	rat	> 5.28 mg/l	4 h
Pyrethrins and Pyrethroids	EU CLP LC50 (dust and mist)	rat	> 3.4 mg/l	4 h
disodium hydrogenorthophosphate	EU CLP LC50 (dust and mist)	rat	> 0.83 mg/l	4 h
potassium dihydrogenorthophosphate	EU CLP LC50 (dust and mist)	rat	> 0.83 mg/l	4 h

**Acute dermal toxicity**

Name	Method	Species	Dose
2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether	EU CLP LD50	rabbit	> 2,000 mg/kg
Distillates (petroleum), hydrotreated light	EU CLP LD50	rabbit	> 2,000 mg/kg
Pyrethrins and Pyrethroids	EU CLP LD50	rabbit	> 2,000 mg/kg
disodium hydrogenorthophosphate	EU CLP LD50	rat	> 2,000 mg/kg
potassium dihydrogenorthophosphate	EU CLP LD50	rat	> 2,000 mg/kg

- Skin corrosion/irritation : Based on available data, the classification criteria are not met.
- Serious eye damage/eye irritation : Based on available data, the classification criteria are not met.
- Skin sensitisation : Based on available data, the classification criteria are not met.
- Germ cell mutagenicity : Based on available data, the classification criteria are not met.
- Carcinogenicity : Based on available data, the classification criteria are not met.
- Toxicity for reproduction : Based on available data, the classification criteria are not met.
- STOT - single exposure : Based on available data, the classification criteria are not met.
- STOT - repeated exposure : Based on available data, the classification criteria are not met.
- Aspiration hazard : Based on available data, the classification criteria are not met.

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Components	Acute aquatic toxicity	M-Factor	Chronic aquatic toxicity	M-Factor
Isobutane	No classification proposed		No classification proposed	
Propane	No classification proposed		No classification proposed	
2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether	Very toxic to aquatic life.	1	Very toxic to aquatic life with long lasting effects.	1
Distillates (petroleum), hydrotreated light	No classification proposed		No classification proposed	
Pyrethrins and Pyrethroids	Very toxic to aquatic life.	100	Very toxic to aquatic life with long lasting effects.	100
disodium hydrogenorthophosphate	No classification proposed		No classification proposed	
potassium dihydrogenorthophosphate	No classification proposed		No classification proposed	

**12.2 Persistence and degradability**

Component	Biodegradation	Exposure time	Summary
Isobutane	70 %	< 10 d	Readily biodegradable.
Propane	70 %	< 10 d	Readily biodegradable.
2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether	4 %	28 d	Not readily biodegradable.
Distillates (petroleum), hydrotreated light	74 %	28 d	Readily biodegradable.
Pyrethrins and Pyrethroids	no data available		
disodium hydrogenorthophosphate	no data available		
potassium dihydrogenorthophosphate	no data available		

**12.3 Bioaccumulative potential**

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Isobutane	1.57 - 1.97	2.8

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Propane	no data available	1.81
2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether	91 - 380	4.8
Distillates (petroleum), hydrotreated light	61 - 159	no data available
Pyrethrins and Pyrethroids	no data available	no data available
disodium hydrogenorthophosphate	no data available	no data available
potassium dihydrogenorthophosphate	no data available	no data available

**12.4 Mobility**

Component	End point	Value
Isobutane		no data available
Propane		no data available
2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether		no data available
Distillates (petroleum), hydrotreated light		no data available
Pyrethrins and Pyrethroids		no data available
disodium hydrogenorthophosphate		no data available
potassium dihydrogenorthophosphate		no data available

**12.5 PBT and vPvB assessment**

Component	Results
Isobutane	Not fulfilling PBT and vPvB criteria
Propane	Not fulfilling PBT and vPvB criteria
2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether	Not fulfilling PBT and vPvB criteria
Distillates (petroleum), hydrotreated light	Not fulfilling PBT and vPvB criteria
Pyrethrins and Pyrethroids	Not fulfilling PBT and vPvB criteria
disodium hydrogenorthophosphate	Not fulfilling PBT and vPvB criteria
potassium dihydrogenorthophosphate	Not fulfilling PBT and vPvB criteria

**12.6 Other adverse effects** : None known.**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

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Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Disposal should be in accordance with local, state or national legislation.  
Please recycle empty packaging.

Packaging : Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

	Land transport	Sea transport	Air transport
14.1 UN number	1950	1950	1950
14.2 UN proper shipping name	UN 1950 AEROSOLS, Flammable, 2.1	UN 1950 AEROSOLS, Flammable, 2.1	UN 1950 AEROSOLS, Flammable, 2.1
14.3 Transport hazard class(es)	2	2	2.1
14.4 Packing group			
14.5 Environmental hazards			
14.6 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.
14.7 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**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture : This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**16. OTHER INFORMATION**

If applicable, revision(s) are noted by the bold bars || in left-hand margin.

**Further information**

H220	Extremely flammable gas.
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H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.