

SAFETY DATA SHEET**BG070 FLY & BUG KILLER****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name BG070 FLY & BUG KILLER
Product number A5920
Internal identification A5920R/03

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Insecticidal spray.

1.3. Details of the supplier of the safety data sheet

Supplier JANGRO LTD
JANGRO HOUSE
WORSLEY ROAD
FARNWORTH
BOLTON
BL4 9LU
0845 458 5223
enquiries@jangrohq.net

1.4. Emergency telephone number

Emergency telephone +44 (0) 777 8505 330

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

Health hazards

Not Classified

Environmental hazards

Not Classified

Classification (67/548/EEC or 1999/45/EC)

F+;R12. N;R50/53.

2.2. Label elements**Pictogram**

Signal word Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated

Precautionary statements

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

BG070 FLY & BUG KILLER**Contains** HYDROCARBON PROPELLANT**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

HYDROCARBON PROPELLANT CAS number: 68476-85-7 EC number: 270-704-2	30-60%
Classification Flam. Gas 1 - H220 Press. Gas, Liquefied - H280	Classification (67/548/EEC or 1999/45/EC) F+;R12.
Hydrocarbons, C11-14, n-alkanes,cyclic, <2% aromatics CAS number: — EC number: 926-141-6 REACH registration number: 01-2119456620-43-xxxx	5-10%
Classification Asp. Tox. 1 - H304	Classification (67/548/EEC or 1999/45/EC) Xn;R65. R66.
d-PHENOTHRIN CAS number: 188023-86-1 EC number: 247-404-5 M factor (Acute) = 10 M factor (Chronic) = 1	<1%
Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) N;R50/53.
SODIUM NITRITE CAS number: 7632-00-0 EC number: 231-555-9 REACH registration number: 01-2119471836-27-xxxx M factor (Acute) = 1	<1%
Classification Ox. Sol. 3 - H272 Acute Tox. 3 - H301 Eye Irrit. 2 - H319 Aquatic Acute 1 - H400	Classification (67/548/EEC or 1999/45/EC) O;R8 T;R25 N;R50

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.

Skin contact

Wash skin thoroughly with soap and water.

Eye contact

Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

BG070 FLY & BUG KILLER

Inhalation

Coughing, chest tightness, feeling of chest pressure.

Ingestion

May cause discomfort if swallowed.

Skin contact

Prolonged contact may cause redness, irritation and dry skin.

Eye contact

May cause discomfort.

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

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards

Extremely flammable aerosol. Pressurised container: may burst if heated

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

Protective actions during firefighting

Containers close to fire should be removed or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Wear protective clothing and gloves. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions

Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Eliminate all sources of ignition. Provide adequate ventilation. Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

BG070 FLY & BUG KILLER

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not expose to temperatures exceeding 50°C/122°F. Avoid inhalation of vapours/spray and contact with skin and eyes. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. Wear protective gloves. For professional users only. Use biocides safely. Always read the label and product information before use.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep away from food, drink and animal feeding stuffs. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store at temperatures between 4°C and 40°C.

Storage class

Flammable compressed gas storage.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

HYDROCARBON PROPELLANT

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m3

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m3

Hydrocarbons, C11-14, n-alkanes,cyclic, <2% aromatics

Long-term exposure limit (8-hour TWA): WEL 1000 mg/m3

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC).

Hygiene measures

Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Aerosol.

Colour

White/off-white.

Odour

Pleasant, agreeable.

BG070 FLY & BUG KILLER

pH

Not applicable.

Solubility(ies)

Emulsifiable in water.

9.2. Other information

Other information

Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO₂). Carbon monoxide (CO).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation

Coughing, chest tightness, feeling of chest pressure.

Ingestion

May cause discomfort if swallowed.

Skin contact

Repeated exposure may cause skin dryness or cracking.

Eye contact

May cause discomfort.

Toxicological information on ingredients.

BG070 FLY & BUG KILLER
HYDROCARBON PROPELLANT

Toxicological effects

No information available.

Acute toxicity - inhalation**Acute toxicity inhalation (LC₅₀ vapours mg/l)**

20.01

Species

Rat

ATE inhalation (vapours mg/l)

20.01

Reproductive toxicity**Reproductive toxicity - development**

No information available.

Hydrocarbons, C11-14, n-alkanes,cyclic, <2% aromatics

Acute toxicity - oral**Acute toxicity oral (LD₅₀ mg/kg)**

5,000.0

Species

Rat

ATE oral (mg/kg)

5,000.0

Acute toxicity - dermal**Acute toxicity dermal (LD₅₀ mg/kg)**

5000.0

Species

Rabbit

ATE dermal (mg/kg)

5000.0

Acute toxicity - inhalation**Acute toxicity inhalation (LC₅₀ vapours mg/l)**

5001.0

Species

Rat

ATE inhalation (vapours mg/l)

5001.0

Inhalation

Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

Ingestion

May cause discomfort if swallowed.

Skin contact

Liquid may irritate skin.

Eye contact

Vapour or spray in the eyes may cause irritation and smarting.

BG070 FLY & BUG KILLER

d-PHENOTHRIN

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg)

5,000

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg)

2000

Species

Rat

Acute toxicity - inhalation

SODIUM NITRITE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg)

180.0

Species

Rat

ATE oral (mg/kg)

180.0

SECTION 12: Ecological Information

Ecotoxicity

The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Acute toxicity - fish

Not determined.

BG070 FLY & BUG KILLER

Ecological information on ingredients.

HYDROCARBON PROPELLANT

Acute toxicity - fish

Not determined.

Hydrocarbons, C11-14, n-alkanes,cyclic, <2% aromatics

Acute toxicity - fish

LC50, 96 hours: > 1000 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC50, 48 hours: > 1000 mg/l, Daphnia magna EC50, 48 hours: >250ppm mg/l, Daphnia magna

Acute toxicity - aquatic plants

IC50, 72 hours: 20ppm mg/l, Algae

d-PHENOTHRIN

Acute aquatic toxicity

LE(C)50

0.01 < L(E)C50 ≤ 0.1

M factor (Acute)

10

Acute toxicity - fish

, 96 hours: 0.0559 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates

EC50, 48 hours: 0.0046 mg/l, Daphnia magna

Acute toxicity - aquatic plants

IC50, 72 hours: > 5 mg/l, Scenedesmus subspicatus

Chronic aquatic toxicity

NOEC

0.001 < NOEC ≤ 0.01

Degradability

Rapidly degradable

M factor (Chronic)

1

SODIUM NITRITE

Acute aquatic toxicity

LE(C)50

0.1 < L(E)C50 ≤ 1

M factor (Acute)

1

Acute toxicity - fish

LC50, 48 hours: 360 mg/l, Leuciscus idus (Golden orfe) LC50, 96 hours: 0.54-26.3 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates

NOEC, : 9.86 mg/l, Daphnia magna EC50, 48 hours: 15.4 mg/l, Daphnia magna

Chronic toxicity - aquatic invertebrates

NOEC, : 9.86 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability

The product is expected to be biodegradable.

BG070 FLY & BUG KILLER**Ecological information on ingredients.****Hydrocarbons, C11-14, n-alkanes,cyclic, <2% aromatics****Persistence and degradability**

The product is biodegradable.

d-PHENOTHRIN**Biodegradation**

Highly insoluble in water. - Degradation (%) 0: 28 days

12.3. Bioaccumulative potential

The product is not bioaccumulating.

Ecological information on ingredients.**d-PHENOTHRIN**

BCF: 266,

12.4. Mobility in soil**Mobility**

The product is miscible with water and may spread in water systems.

Ecological information on ingredients.**d-PHENOTHRIN****Mobility**

The product is insoluble in water.

Adsorption/desorption coefficient

Soil - log Koc: 5.2 @ °C

12.5. Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

Ecological information on ingredients.**Hydrocarbons, C11-14, n-alkanes,cyclic, <2% aromatics**

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Not determined.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal methods**

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information**14.1. UN number**

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
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BG070 FLY & BUG KILLER

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2.1

IMDG class 2.1

ICAO class/division 2.1

Transport labels**14.4. Packing group**

ADR/RID packing group 5F

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Tunnel restriction code (D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

Control of Substances Hazardous to Health Regulations 2002 (as amended).

EU legislation

Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment**Inventories****EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

SECTION 16: Other information**Revision comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 13/05/2015

Revision 4.0

Supersedes date 29/08/2014

Risk phrases in full

BG070 FLY & BUG KILLER

R12 Extremely flammable.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

Hazard statements in full

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

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.

Disclaimer

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.