COSHH RISK ASSESSMENT

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

1. ASSESSMENT DETAILS

Company / Site	Monarch Pest Control Services Ltd.
Assessment reference	COSHH 07
Assessed by	Patrick Condon
Date of assessment	13/10/2026
Review date	(13/10/2027, or sooner if the SDS, process or legislation changes)
Task / activity	Aerosol space and surface spray against flying and crawling insects (flies, wasps, mosquitoes, cockroaches, ants, fleas, bed bugs and others), professional pest control
Location(s) of use	Client Premises
Frequency / duration of use	As required
Quantity used	As required

2. PRODUCT IDENTIFICATION

Product name	**DIGRAIN CONTROL (Digrain Control 600ml, code I8059)**
UFI / authorisation no.	HSE No. 7493 (Lodi UK product page) UFI C2QG-A2VE-N006-HW45 (from SDS revision 9)
Supplier	(GB) LODI UK, Unit 104, Potter Space, 7 Kidderminster Road, Cutnall Green, Droitwich WR9 0NS, UK Tel: 01384 404242 | fds@lodi.fr
Emergency telephone	Healthcare professionals: NPIS 0344 892 0111 (24 h) General public: NHS 111 (England and Wales), NHS 24 on 111 (Scotland) Northern Ireland: GP or NHS 111
Identified use	Insecticide, biocidal use (PT18). Professional use only. Do not use for other purposes.
Active substances	Permethrin (CAS 52645-53-1) 2.5 g/l (0.25 %) Tetramethrin (CAS 7696-12-0) 2.4 g/l (0.24 %) Piperonyl butoxide (synergist, CAS 51-03-6) < 2.5 %
SDS reference	Lodi UK SDS, Version 1, Revision 13, 19/01/2026 (printed 28/01/2026). Header cites REACH 1907/2006 and 2015/830; classification to CLP ATP15.
Physical form	Aerosol spray (fluid liquid). Butane/propane propellant. Density < 1. Insoluble in water. Combustion heat ≥ 30 kJ/g. Vapours heavier than air.

3. HAZARD CLASSIFICATION & LABEL ELEMENTS

		
GHS02 **Flammable**	**GHS07** **Harmful / Irritant**	**GHS09** **Environment**

Signal word	DANGER
Classification (CLP, EC 1272/2008)	Aerosol 1 (H222, H229) | Eye Irrit. 2 (H319) | STOT SE 3 (H336) | Asp. Tox. 1 (H304) | Aquatic Acute 1 (H400) | Aquatic Chronic 1 (H410) | EUH066, EUH208
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H410 Very toxic to aquatic life with long lasting effects. (H304 is classified but not labelled, as permitted for aerosols.)
Supplementary statements	EUH066 Repeated exposure may cause skin dryness or cracking. EUH208 Contains PERMETHRIN (ISO). May produce an allergic reaction.

Label identifiers	Propan-2-ol (EC 200-661-7), acetone (EC 200-662-2)
Precautionary statements	P102 Keep out of reach of children. 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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P501 Dispose of contents/container according to the regulation.
Other hazards	No SVHC ≥ 0.1 %. Not PBT/vPvB. No endocrine disruptors ≥ 0.1 %.

4. HAZARDOUS INGREDIENTS

Substance	CAS / EC	Conc. %	Classification
Butane (propellant)	106-97-8 203-448-7	50 – < 100	Flam. Gas 1A, H220
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2 % aromatics	EC 926-141-6	10 – < 25	Asp. Tox. 1, H304; EUH066
Propan-2-ol	67-63-0 200-661-7	2.5 – < 10	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336
Acetone	67-64-1 200-662-2	2.5 – < 10	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066
Propane (propellant)	74-98-6 200-827-9	2.5 – < 10	Flam. Gas 1A, H220
Piperonyl butoxide	51-03-6 200-076-6	< 2.5	Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 (M=1); EUH066
Permethrin	52645-53-1 258-067-9	< 2.5 (0.25)	Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Acute 1, H400 (M=1000); Aquatic Chronic 1, H410 (M=1000)
Tetramethrin	7696-12-0 231-711-6	< 2.5 (0.24)	Acute Tox. 4, H302; Carc. 2, H351; STOT SE 2, H371; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100)
Alpha-pinene	80-56-8 201-291-9	< 2.5	Flam. Liq. 3, H226; Acute Tox. 4, H302; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Acute/Chronic 1, H400/H410
Citral	5392-40-5 226-394-6	< 2.5	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319
Diphenyl ether	101-84-8 202-981-2	< 2.5	Eye Irrit. 2, H319; Aquatic Acute 1, H400; Aquatic Chronic 3, H412
5-Methylheptan-3-one	541-85-5 208-793-7	< 2.5	Eye Irrit. 2, H319; STOT SE 3, H335
Dipropylene glycol monomethyl ether	34590-94-8 252-104-2	< 2.5	Not classified (has WEL)

5. WORKPLACE EXPOSURE LIMITS (EH40)

Substance	8-hr TWA	15-min STEL
Butane	600 ppm (1450 mg/m³)	750 ppm (1810 mg/m³)
Propan-2-ol	400 ppm (999 mg/m³)	500 ppm (1250 mg/m³)
Acetone	500 ppm (1210 mg/m³)	1500 ppm (3620 mg/m³)
Dipropylene glycol monomethyl ether	50 ppm (308 mg/m³)	–
Diphenyl ether	1 ppm (7 mg/m³)	2 ppm (14 mg/m³)
5-Methylheptan-3-one	10 ppm (53 mg/m³)	20 ppm (107 mg/m³)
Permethrin, tetramethrin, PBO	None assigned	–

6. ROUTES OF EXPOSURE & HEALTH EFFECTS

Route	Likelihood	Effects (from SDS)
Inhalation (spray mist / solvent vapour)	☐ Low ☒ Med ☐ High	Drowsiness, dizziness, headache, nausea, reduced alertness and coordination (H336). High solvent exposure: airway irritation, effects on kidney, liver and nervous system, loss of consciousness in extreme cases.
Skin contact	☐ Low ☒ Med ☐ High	Repeated exposure may cause dryness or cracking (EUH066) and non-allergic dermatitis. May produce an allergic reaction (permethrin).
Eye contact	☐ Low ☒ Med ☐ High	Causes serious eye irritation, reversible.
Ingestion / aspiration	☒ Low ☐ Med ☐ High	May be fatal if swallowed and enters airways (chemical pneumonia). Unlikely with an aerosol.
Environment	☐ Low ☒ Med ☐ High	Very toxic to aquatic life with long lasting effects (permethrin crustacean EC50 0.00064 mg/l). Not rapidly degradable.

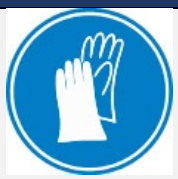
7. PERSONS AT RISK

Group	At risk?	Notes
Pest control operatives	☒ Yes ☐ No	Spraying, especially in small or poorly ventilated rooms
Other employees / staff on site	☒ Yes ☐ No	Exclude from treated area until ventilated
Public / customers / occupants	☒ Yes ☐ No	Exclude during treatment; extinguish pilot lights and naked flames
Children & pets (incl. fish tanks)	☒ Yes ☐ No	Remove pets; cover aquaria and switch off pumps; pyrethroids are highly toxic to cats and fish
New / expectant mothers, young persons	☐ Yes ☐ No	Individual assessment; solvent exposure and tetramethrin (Carc. 2 ingredient)

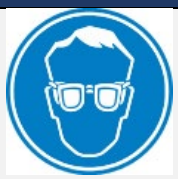
8. CONTROL MEASURES

Elimination / substitution	Use non-chemical controls first (proofing, fly screens, UV traps). Use a non-flammable alternative where ignition sources cannot be removed.
Engineering controls	Adequate ventilation, especially in confined areas. Vapours are heavier than air and can collect at floor level.
Fire prevention	No naked flames, pilot lights, sparks or hot surfaces during use. Do not spray on an open flame. Isolate electrical equipment where practical. No smoking.
Safe handling	Read the label first. Short bursts only; do not breathe the spray. Avoid skin and eye contact. Do not pierce or burn cans, even after use.
Hygiene	Wash hands after use. No eating, drinking or smoking. Remove and wash contaminated clothing before reuse; remove PPE before entering eating areas.
Storage	Original container, upright, in a dry, well-ventilated place away from heat, sunlight and ignition sources. Not above 50 °C (do not leave in hot vehicles). Away from food and animal feed. Out of reach of children.
Training / information	Operatives trained in biocide use (e.g. RSPH/BPCA level 2) and briefed on this assessment, the label and the SDS.

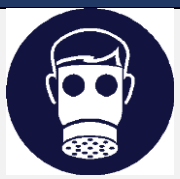
9. PERSONAL PROTECTIVE EQUIPMENT



Chemical-resistant gloves



Eye protection



Respiratory protection (if ventilation poor)

PPE	Requirement (from SDS)	Standard / notes
Hand	Chemical-resistant gloves; PVA or butyl rubber recommended	EN ISO 374-1. Select for task and duration
Eye / face	Eye protection against liquid splashes; face shield if high danger	EN 166. Contact lens wearers should wear prescription glasses

Body	Suitable protective clothing; type 6 (EN 13034) if splashing, type 3 (EN 14605) if heavy spatter	Launder work clothing regularly
Respiratory	Breathing apparatus if ventilation is insufficient	Combination A2P2 (EN 14387 / EN 143) for confined spaces; face-fit tested

10. FIRST AID	
General	If in doubt or symptoms persist, call a doctor and show the label. Never give anything by mouth to an unconscious person. Treat symptomatically.
Inhalation	Move to fresh air, keep warm and at rest. If unconscious, recovery position and get medical help. If breathing is irregular or stopped, give artificial respiration and call a doctor.
Skin contact	Remove contaminated clothing and wash skin thoroughly with soap and water. Seek medical attention if an allergic reaction develops.
Eye contact	Rinse with clean water for 15 minutes holding eyelids open. Consult an ophthalmologist if redness, pain or visual problems persist.
Ingestion	Do NOT induce vomiting (aspiration risk). Do not give anything to drink. Keep at rest and get medical attention immediately, showing the label.

11. SPILLAGE, FIRE & DISPOSAL	
Accidental release	Remove ignition sources and ventilate. Avoid breathing vapour and skin or eye contact. Contain leaks with non-combustible absorbent (sand, earth, vermiculite). Keep out of drains and waterways; inform authorities if contaminated. Clean with detergent, not solvents.
Fire	Flammable. Small fires: dry powder, CO2. Larger fires: water spray/mist or AFFF foam; no water jet. Keep nearby cans cool: they may burst. Combustion gives CO and CO2. Firefighters need breathing apparatus. Keep run-off out of drains.
Waste disposal	Do not pour into drains or waterways. Empty cans completely, keep labels on, and pass to a certified disposal contractor as hazardous waste. Do not pierce or burn.

12. SIGN-OFF

Role	Name	Signature	Date
Assessor	Patrick Condon	Patrick Condon	19th October 2026
Manager / approver	George McConville	George McConville	19th October 2026

Source: Lodi UK DIGRAIN CONTROL Safety Data Sheet, Version 1, Revision 13 (19/01/2026). Read alongside the current SDS and product label, and review for site-specific conditions.