

SAFETY DATA SHEET

Activyl®

Section 1: Identification of the Substance and Supplier

Product name	Activyl This SDS relates to the following marketed products: Activyl for Small Cats (0.6 - 4 kg) Activyl for Large Cats (> 4 kg) Activyl for Very Small Dogs (1.5 - 6.5 kg) Activyl for Small Dogs (6.6 – 10 kg) Activyl for Medium-Sized Dogs (10.1 – 20 kg) Activyl for Large Dogs (20.1 – 40 kg) Activyl for Extra Large Dogs (40.1 – 60 kg)
Recommended use	For topical flea treatment in cats and dogs
Company details	Schering-Plough Animal Health Limited 33 Whakatiki Street, Upper Hutt 5018, New Zealand Phone: 0800 800 543 Fax: 0800 808 100 Website: www.msd-animal-health.co.nz Hours: 8 am – 5 pm, Mon – Fri
Emergency telephone	0800 764 766 (0800 POISON) 24 hours human health 0800 243 622 (0800 CHEMCALL) 24 hours
Date of preparation	April 2019

Section 2: Hazards Identification

Hazard classifications	3.1B: Flammable Liquids: high hazard 6.1D: Acute toxicant 6.3B: Skin irritant 6.4A: Eye irritant 6.5B: Contact sensitiser 6.9A: Target organ systemic toxicant 9.1B: Aquatic ecotoxicant 9.3C: Vertebrate ecotoxicant 9.4B: Terrestrial Invertebrate ecotoxicant
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GHS Pictogram:



Signal word

Danger

Hazard statement

H225: Highly flammable liquid and vapour.
H302: Harmful if swallowed.
H316: Causes mild skin irritation.
H317: May cause an allergic skin reaction.
H320: Causes eye irritation.
H372: Causes damage to the nervous, cardiovascular, liver, blood and haematopoietic systems through prolonged or repeated oral exposure.
H411: Toxic to aquatic life with long lasting effects.
H433: Harmful to terrestrial vertebrates.
H442: Toxic to terrestrial invertebrates.

Prevention statement

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
P210: Keep away from heat/sparks/open flames/hot surfaces.

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P233: Keep container tightly closed.
P260: Do not breathe mist.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves, protective clothing and eye or face protection.

Response statement

P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314: Get medical advice/attention if you feel unwell.
P321: See first aid instruction on the label of the product.
P330: Rinse mouth
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P362 + P364: Take off contaminated clothing and wash it before reuse.
P370 + P378: In case of fire: Use Carbon dioxide (CO₂), extinguishing powder or water spray.
P391: Collect spillage.

Storage

P403 + P235: Store in a well-ventilated place. Keep cool.

Disposal

P501: Dispose of product, packaging and waste at an approved landfill or other approved facility.

Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Indoxacarb	173584-44-6	19.53%
Triacetin	102-76-1	20 - 30%
Ethyl Acetoacetate	141-97-9	20 - 30%
Isopropyl Alcohol	67-63-0	35.4 %

Section 4: First Aid Measures

Necessary first aid measures

SKIN CONTACT In case of skin contact, carefully remove any contaminated clothing, including shoes, and wash skin thoroughly with soap and water. If irritation or symptoms occur or persist, consult a doctor.

EYE CONTACT In case of eye contact, immediately rinse eyes thoroughly with plenty of water. If wearing contact lenses, remove only after initial rinse, and continue rinsing eyes for at least 15 minutes. If irritation occurs or persists, consult a doctor.

INGESTION Rinse mouth and drink a glass of water. DO NOT induce vomiting unless under the direction of a qualified medical professional or the National Poison Control Centre. If symptoms persist, consult a doctor.

INHALATION Remove affected person promptly to fresh air. If any trouble breathing, signs of drunkenness (intoxication or inebriation) or dizziness, nausea or unconsciousness occurs, get immediate medical attention. Administer artificial respiration if breathing has ceased.

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Required instructions For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.

Workplace facilities Emergency showers and eyewashes may be warranted depending on quantity and type of use.

Section 5: Fire Fighting Measures

Type of hazard Flammable (Contains isopropyl alcohol).

Fire hazard properties Burning can produce carbon monoxide and/or carbon dioxide.

Regulatory requirements Two fire extinguishers are required where quantities greater than 250 L are present.

Extinguishing media and methods Use carbon dioxide (CO₂), extinguishing powder or water spray.

Hazchem code 2YE (Contain spillage)

Recommended protective clothing Wear full protective clothing and self-contained breathing apparatus (SCBA).

Section 6: Accidental Release Measures

Personal Precautions Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental Precautions Prevent spilled material from flowing onto adjacent land or into streams, ponds, or lakes. Avoid release to the environment.

Emergency procedures Wear chemical resistant gloves and overalls, facemask or goggles. Prevent further spillage. Adsorb spilled product with non-combustible absorbent material and place in sealable container for disposal. Wash down affected area with water plus detergent. Absorb and collect washings and place in the same sealable container for disposal. Seek advice from the local authority regarding disposal. Avoid contamination of any water source or soil with product or empty container.

Section 7: Handling and Storage

Precautions for safe handling Avoid contact with skin, eyes, and mucosa. Keep containers adequately sealed during material transfer, transport, or when not in use. See Section 8 (Exposure Controls) for additional guidance.

Regulatory requirements Signage required where quantities greater than 250 L are present. Emergency Plan required where quantities greater than 1,000 L are present. Two fire extinguishers are required where quantities greater than 250 L are present. Location certificate required where quantities greater than 250 L are present.

Handling practices Avoid contact with skin. Keep containers adequately sealed during material transfer, transport, or when not in use.

Certified handlers Not required.

Conditions for safe storage Store in original packaging. Keep packaging sealed when not in use. Keep out of reach of children. Keep away from heat, sparks, open flame or other sources of ignition.

Store site requirements Store at room temperature away from foodstuffs in the original package to protect from moisture. Do not refrigerate. Keep away from heat, sparks, open flames, and

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direct sunlight. Avoid extreme heat.
Not to be stored with explosives, flammable gases in bulk, poisonous gasses, spontaneously combustible substances, oxidizing agents, organic peroxides or radioactive substances.

Packaging PG II

Section 8: Exposure Control/Personal Protection

Occupational exposure limits	No WES is set for this substance at this time.
Application in the workplace	Ensure adequate ventilation. Keep container sealed when not in use.
Exposure standards outside the workplace	No TEL or EEL is set for this substance at this time
Personal protection	Wear chemical resistant gloves, facemask or goggles.
Engineering controls	The health hazard risks of handling this material are dependent on many factors, including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. Exposure controls for normal operating or routine procedures follow a tiered strategy. Engineering controls are the preferred means of long-term or permanent exposure control. If engineering controls are not feasible, appropriate use of personal protective equipment (PPE) may be considered as alternative control measures. Exposure controls for non-routine operations must be evaluated and addressed as part of the site-specific risk assessment.

Section 9: Physical and Chemical Properties

Appearance	Off white to yellow liquid
Boiling Point	Not determined
Melting/Softening point	Not determined
Vapour Pressure	Not determined
Specific Gravity	1.00
Solubility (H ₂ O)	Not determined
Percent Volatiles	Not determined
Flash Point	1.5°C
Evaporation Rate	Not determined

Section 10: Stability and Reactivity

Stability of the substance	Stable under normal conditions.
Conditions to avoid	Keep away from heat, sparks, open flame and direct sunlight.
Material to avoid	Avoid food products.
Hazardous decomposition products	No dangerous decomposition is expected if used according to manufacturer's specifications.

Section 11: Toxicological Information

Acute effects for individual ingredients or product as specified

INHALATION	LC50 (8hr): 16,000 ppm (rat) (Isopropyl Alcohol)
SKIN	Dermal LD50: > 2000 mg/kg (Rat). No abnormal clinical signs or irritation reported. (Activyl)
EYE	Moderately irritating in a rabbit eye irritation study (MTS = 22.7). (Activyl)

Isopropyl Alcohol: Acute exposure by ingestion or inhalation may cause headache, dizziness, hallucinations, distorted perception, laboured breathing, nausea, and vomiting.

Ethyl Acetoacetate has been reported to cause irritation to eyes and respiratory system.

Activyl: In an acute oral rat study, 1/5 animals had to be euthanized due to moribund condition following dosing with 2000mg/kg. In this moribund animal, abnormal gait and stance, piloerection, decreased body tone and activity, gasping, vocalization, and tearing eyes were observed. Other than the one moribund animal, no visible lesions were observed at necropsy of the other animals dosed in this study and no clinical signs were observed in animals treated with doses below 2000 mg/kg (175 mg/kg and 550 mg/kg).

Chronic/long term effects for individual ingredients only

Isopropyl Alcohol: Chronic exposure may also cause thinning, inflammation, drying and cracking of the skin.	
TEL	No TEL is set for this substance at this time.

Section 12: Environmental Information

Effects for individual ingredients only

AQUATIC	Indoxacarb: 96-hr LC50 (bluegill) 0.9 mg/L Indoxacarb: 96-hr LC50 (rainbow trout) 0.65 mg/L Indoxacarb: 48-hr EC50 (daphnid) - 0.6 mg/L
SOIL	Indoxacarb: This product is expected to be immobile in soil (Koc = 3300 to 9600) Indoxacarb: Worms (14 day) LC50 > 1250 mg/kg
BIODEGRADATION	Indoxacarb: Moderately persistent with aerobic half-lives ranging from 3 to 693 days and anaerobic range from 147 to 233 days.
TERRESTRIAL VERTEBRATES	Indoxacarb: Bobwhite quail (Oral) LD50 = 98 mg/kg Indoxacarb: Mallard duck (5 day) dietary > 5620 ppm Triacetin: Frog (Oral) LDLo = 150 mg/kg
TERRESTRIAL INVERTEBRATES	Indoxacarb: Risk to bees: High toxicity via contact routes
EEL	No EEL is set for this substance at this time.

The above aquatic and avian toxicity is for the DuPont product (DPX-MP062), a mixture containing 75% active indoxacarb with inactive isomer.

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Section 13: Disposal Considerations

Disposal information	Disposal Dispose of unused contents in a suitable landfill. Where possible, dispose of unused product through AgRecovery Chemicals. Avoid contamination of any water source or the environment with product or empty container. Container Disposal Dispose of empty container by puncturing and burying in a suitable landfill. Where possible, recycle through AgRecovery. Do NOT burn.
Reference	Current version of NZS 8409 Management of Agrichemicals.

Section 14: Transport Information

UN Number	1219
UN proper shipping name	Isopropanol solution.
UN dangerous goods class and subsidiary risk	3, 9
UN Packaging Group	II
Environmental hazards	Marine pollutant
Special precautions when transporting the substance	

Section 15: Regulatory Information

Regulatory status	ACVM Registration No: A10996 For conditions of registration see www.foodsafety.govt.nz HSNO Approval Code: HSR100757 For a full listing of controls see www.epa.govt.nz
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Section 16: Other Information

Additional information	Activyl is a registered trademark.
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