1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

SUBSTANCE/PREPARATION: ADAMS 14 DAY RESIDUAL FLEA AND TICK MIST (EPA REG. NO. 37425-16)

COMPANY: SMITHKLINE BEECHAM ANIMAL HEALTH
1600 PAOLI PIKE
WEST CHESTER, PA 19380
PHONE: 1-800-733-5500

EMERGENCY AND AFTER HOURS CONTACT:
HAZARD INFORMATION SERVICES
ST. PAUL-RAMSEY MEDICAL CENTER
640 JACKSON STREET, ST. PAUL, MN 55101
PHONE: 1-800-228-5635

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS | CAS REGISTRY NO | PERCENT |
-------------|----------------|---------|
Pyrethrins   | 8003-34-7      | 0.15    |
Piperonyl Butoxide | 51-03-6 | 0.37    |
N-Octyl      | 113-48-4       | 1.0     |
Bicycloheptene |           |         |
Dicarboximide |             |         |
DI-N-Propyl  | 113-48-4       | 1.0     |
Isocinchomeranate |       |         |
Trade Secret | Unassigned     | 97.48   |

3. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF EXPOSURE: Avoid breathing mist or vapour, eye contact, skin contact, ingestion.

SKIN CONTACT: Irritation can occur following direct contact with this material. Symptoms such as itching, redness, swelling or pain might be immediate or delayed.

EYE CONTACT: Irritation can occur following direct contact with this material. Symptoms might include redness, swelling, blurred vision or pain.

INHALATION: Inhalation of mist or vapour is not expected to produce toxicity. However, inhalation should be avoided. Respiratory symptoms may indicate an allergic reaction.

INGESTION: Toxicity following ingestion is not expected. However, ingestion should be avoided.

CONDITIONS AGGRAVATED BY EXPOSURE: None known.

4. FIRST-AID MEASURES

SKIN CONTACT: Remove contaminated clothing and flush exposed area with large amounts of water. Obtain medical assistance if skin reaction occurs, which may delayed.

NOTE TO PHYSICIAN: None.

EYE CONTACT: Flush eyes continuously with water for at least 15 minutes and obtain medical attention.

NOTE TO PHYSICIAN: Consider further flushing of eyes with large amounts of water or saline.

INHALATION: General procedures for inhalation overexposures are as follows. Move exposed subject to fresh air and seek medical assistance. IF BREATHING HAS STOPPED, START BASIC LIFE SUPPORT AND SEEK IMMEDIATE MEDICAL ASSISTANCE.

NOTE TO PHYSICIAN: For combustion products, refer to section number 5.

INGESTION: In the event of swallowing this material, seek medical advice or consult the emergency contact listed in section 1.

NOTE TO PHYSICIAN: This material is not a corrosive agent. It contains pyrethrin insecticides.

ANTIDOTES: No specific antidotes known.

5. FIRE-FIGHTING MEASURES

FIRE CONTROL: This material supports combustion. Carbon dioxide, dry chemical or foam extinguishers are recommended. Water jets may intensify the fire or be ineffective. Toxic or corrosive gases are expected during a fire or heating of this material.

SPECIAL FIREFIGHTING PROCEDURES: Toxic or corrosive gases are expected in fires involving this mixture. Self-contained breathing apparatus and full protective equipment are recommended for firefighters. Move containers from fire area if possible without increased personal risk. Dike area if possible to contain water for later disposal.

6. ACCIDENTAL RELEASE MEASURES

SPILLS: No special procedures required for small spills. For large spills, wear protective clothing, spread a suitable inert absorbent on the spillage then carefully scoop up the spillage and place in a suitable container for recovery or disposal. Wash down spillage area with copious amounts of water. Do not allow this material to enter surface drainage systems. Large spills may be subject to U.S. EPA CERCLA Section 103 release report requirements.

DECONTAMINATION PROCEDURES: Water can be used for clean-up and decontamination operations. No specific detoxification procedures have been identified for this substance.

7. HANDLING AND STORAGE

HANDLING: Do not use this material near sources of ignition.

STORAGE: Keep in tightly sealed containers in a well-ventilated area away from sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS:

PYRETHRINS: United Kingdom (HSE):
5 MG/M3 (8 HR TWA) OES
10 MG/M3 (10 MIN STEL) OES

United States (ACGIH):
5 mg/m3 ACGIH TWA

United States (OSHA):
5 mg/m3 OSHA TWA

OTHER:
AUSTRALIA: 5 MG/M3 TWA.
BELGIUM: 5 MG/M3 TWA.
DENMARK: 5 MG/M3 TWA.
FRANCE: 5 MG/M3 TWA.
GERMANY: 5 MG/M3 TWA.

INDUSTRIAL HYGIENE METHOD: Particulate filter; acetonitrile; high-pressure liquid chromatography with ultraviolet detection; (NIOSH Vol. III # 5008).

PERSONAL PROTECTION:

RESPIRATORS: Respirators are not required for the normal use of this material.

GLOVES: Not required for the normal use of this material.

EYE PROTECTION: Not required for the normal use of this material.

HYGIENE PRACTICES: Wash hands and arms thoroughly after handling this material. Clean up spills immediately.

OTHER PROTECTIVE EQUIPMENT: None required for the normal use of this material.
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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Yellow liquid with an alcohol odor.
FLASH POINT: 66.0 degrees F.
AUTOIGNITION TEMP: 460
LOWER EXPLOSIVE LIMIT: Approximately 2.
UPPER EXPLOSIVE LIMIT: Approximately 12.
MELTING POINT: -88.0 degrees C.
BOILING POINT: Expected to be greater than 82.0 degrees C.
VAPOUR DENSITY: Expected to be approximately 2.07.
VAPOUR PRESSURE: Expected to be greater than 32mmHg.
EVAPORATION RATE: Expected to be 2.06 (butyl acetate = 1).
VOLATILE COMPONENTS (%): 96.5%
VISCOSITY: Not determined.
PH OF AQUEOUS SOLUTIONS: 7
RELATIVE DENSITY: Not determined.
CONDUCTIVITY: Not determined.
OCTANOL/WATER DISTRIBUTION COEFFICIENT: Not determined.
DISSOCIATION CONSTANT (pKa): Not determined.
SOLUBILITY: Components are soluble in water.
OXGEN BALANCE: Not applicable for mixtures.
TRAIN FIRE TEST: Not applicable for liquid mixtures.
DUST EXPLOSIVITY: Not applicable for liquid mixtures.
DUST ELECTRICAL PROPERTIES: Not applicable for liquid mixtures.

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid direct sunlight, conditions that might generate heat and sources of ignition.
INCOMPATIBILITY: Incompatible with strong oxidizing agents such as household bleach, anhydrides, isocyanates and organometalic.
STABILITY: This material is expected to be stable.
THERMAL STABILITY: This material is stable under standard temperature and pressure.
HAZARDOUS POLYMERIZATION: Not expected to occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide.
FIRE AND EXPLOSION HAZARDS: Flammable liquid. Vapors are heavier than air and may travel to a flame or point of ignition.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY: The estimated oral LD50 was greater than 2000 mg/kg in rats.
INHALATION TOXICITY: The estimated inhalation LC50 was greater than 1.04 mg/l for a 4 hour exposure.
SKIN IRRITATION: This mixture was classified as a slight irritation to rabbit skin.
EYE IRRITATION: This mixture was classified as a mild to moderate irritant in rabbit eyes.
SENSITISATION: This mixture was classified as a non-sensitiser to guinea pig skin. No adverse skin reactions or irritation occurred in guinea pigs used to test for allergic reaction or sensitisation (Buehler test).
MUTAGENICITY: Not determined for this mixture.
CARCINOGENICITY: No components in this mixture are listed as carcinogens by SB, IARC, NTP or US OSHA.
REPRODUCTIVE EFFECTS: Not determined for this mixture.
Components in this mixture are unlikely to produce developmental or reproductive effects in humans at levels encountered occupationally.
OTHER EFFECTS: This mixture contains pyrethrin insecticides. The dermal LD50 was greater than 2000 mg/kg in rabbits.

12. ECOLOGICAL INFORMATION

ACUTE AQUATIC EFFECTS: This product is toxic to fish. Do not add directly to water. Do not apply where runoff is likely to occur.
BIODEGRADATION: Not determined.
ACTIVATED SLUDGE RESPIRATION INHIBITION (OECD 209 PROTOCOL): Not determined.
SOIL ADSORPTION: Not determined.

13. DISPOSAL CONSIDERATIONS

Do not reuse container. Rinse thoroughly and wrap container in several layers of newspaper and discard in trash.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not determined.
TECHNICAL NAME: Not determined.
UN NUMBER: Not determined.

15. REGULATORY INFORMATION

EUROPEAN UNION CLASSIFICATION AND LABELLING REQUIREMENTS:
FIRE CLASSIFICATION: Flammable
HEALTH CLASSIFICATION: (Leave blank)
RISK PHRASES: Flammable. (R10)
SAFETY PHRASES: Avoid contact with eyes. (S25)
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. (S26)
SYMBOL: Not required.

16. OTHER INFORMATION

HAZARD LABEL:
**** NO HEALTH HAZARD IDENTIFIED ****
** FLAMMABLE.**
** IRRITATING TO EYES.**
** AVOID CONTACT WITH EYES.**
** IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.**
** TARGET ORGAN- NO SPECIFIC TARGET ORGAN EFFECTS KNOWN.**
** SYMBOL: NOT REQUIRED.**

REFERENCES: SB HAZARD DETERMINATION

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