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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : **Fenbendazole**

CAS-No. : 43210-67-9

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

Identified uses : Anthelmintic (Vet)

1.3 Details of the supplier of the safety data sheet

Manufacturer : ALIVIRA ANIMAL HEALTH LIMITED

Address : Plot No. 104 to 109 & Part of 112 & 113,
 JNPC – SEZ, Parawada Mandal,
 Visakhapatnam - 531019,
 Andhra Pradesh, India.

1.4 Emergency telephone number

Phone No. : 91-0892 4236163

Fax No. : 91-0892 4236164

Email : alivira@alivira.in

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients


3.1 Substances

Formula : $C_{15}H_{13}N_3O_2S$

Molecular Weight : 299.4 g/mol

3.2 Mixtures:

Synonyms : Methyl 5-(phenylthio)-2-benzimidazolecarbamate

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Name / Component	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Fenbendazole (methyl-5-phenylthio-2-benzimidazol-carbamate)	CAS No: 46210-67-9	NA	NA	NA

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation.


In case of skin contact: If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower.

If the chemical got on the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing. Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

If swallowed: Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

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4.2 Most important symptoms and effects, both acute and delayed
4.3 Indication of any immediate medical attention and special treatment needed
 No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media
 Suitable extinguishing media
 Use carbon dioxide or dry chemical powder.

5.2 Special hazards arising from the substance or mixture
 Combustion products are toxic and/ or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.

5.3 Advice for firefighters
 Wear self-contained breathing apparatus (SCBA) for firefighting if necessary.

5.4 Further information
 Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
 Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.


6.2 Environmental precautions
 Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
 Sweep up and shovel. Keep in suitable, closed containers for disposal

6.4 Reference to other sections
 For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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Avoid exposure. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Face shield. Use equipment for eye protection

tested and approved under appropriate government standards. such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good practices.

Wash and dry hands.


Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators

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and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).


SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: Solid
b) Odour	Odourless
c) Odour Threshold	No Data Available
d) pH	No Data Available
e) Melting Point / Freezing Point	Melting Point/range : 232 °C
f) Initial boiling point and boiling range	NA
g) Flash point	NA
h) Evaporation rate	NA
i) Flammability (solid)	No Data Available
j) Upper/lower flammability or explosive limits	NA
k) Vapour pressure	NA
l) Vapour density	NA
m) Relative density	NA
n) Water solubility	Insoluble in Water, sparingly soluble in Dimethyl formamide, very slightly soluble in methanol, freely soluble in Dimethyl Sulphoxide
o) Partition coefficient : n-octanol/water	No Data Available
p) Auto-ignition temperature	NA
q) Decomposition temperature	NA
r) Viscosity	NA

9.2 Other Safety information


No data available

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SECTION 10: Stability and reactivity
10.1 Reactivity no data available
10.2 Chemical stability Stable Product
10.3 Possibility of hazardous reactions no data available
10.4 Conditions to avoid Heat, Dust
10.5 Incompatible materials Strong oxidizing agents
10.6 Hazardous decomposition products Other decomposition products - no data available

SECTION 11: Toxicological information
11.1 Information on toxicological effects
Acute toxicity LD ₅₀ : 10000 mg / kg (Rat) OEL: 2.8 mg/m ³
Serious eye damage/eye irritation No data available
Reproductive toxicity no data available
Specific target organ toxicity - single exposure no data available
Specific target organ toxicity - repeated exposure no data available
Aspiration hazard no data available

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Ingestion: Toxic if swallowed.

Skin: May be harmful if absorbed through skin.

Eyes: May cause eye irritation.

SECTION 12: Ecological Information

12.1 Toxicity

12.2 Persistence and degradability

No data available

12.3 Bio accumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

This material may be burned in a chemical incinerator equipped with an afterburner and scrubber.
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging


Dispose of as unused product packing after detoxification or incinerate.

SECTION 14: Transport information

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

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ADR/RID: Not dangerous goods
 IMDG: Not dangerous goods
 IATA: Not dangerous goods
14.3 Transport hazard class(es)
 ADR/RID: - IMDG: - IATA: -
14.4 Packaging group
 ADR/RID: - IMDG: - IATA: -
14.5 Environmental hazards
 ADR/RID: no IMDG Marine pollutant: no IATA: no
14.6 Special precautions for user
 no data available
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
 NA

SECTION 15: Regulatory information

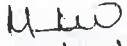

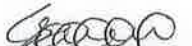
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 No data available

15.2 Chemical Safety Assessment
 no data available
 To follow the local regulatory requirement, as applicable.

SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

PREPARED BY : Sign:  Date : 26/02/2015 Name : M.V.Rao Designation: Executive-EHS	REVIEWED BY : Sign:  Date : 26/2/15 Name : R. Siva Kumar Designation : Sr. Manger - EHS	APPROVED BY : Sign:  Date : 26/02/2015 Name : Satish Ganta Designation : Head - QA
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