

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

1.1. Product identifier

Product form	: Substance
Substance name	: ALBENDAZOLE
Chemical name	: methyl [6-(propylsulfanyl)-1H-benzimidazol-2-yl]carbamate
EC-No.	: 259-414-7
CAS-No.	: 54965-21-8
REACH registration No	: &
Product code	: M1002
Formula	: C12H15N3O2S

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

1.2.1. Relevant identified uses

Main use category	: Industrial use.
Industrial/Professional use spec	: Industrial
Use of the substance/mixture	: Restricted use as an active ingredient in pharmaceutical industry.
Function or use category	: Pharmaceuticals

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

UQUIFA México S.A. de C.V.
Calle 37 este nº 126
62578 Cívac, Jiutepec-Morelos - MEXICO
T 01 777 329 5000 - F 01 7777 329 5029
msds@uquifa.com.mx - <http://www.uquifa.com>

1.4. Emergency telephone number

Emergency number	: Telf: 01 777 329 5000 Office hours (monday to friday, 9 am- 17 pm GTM -6)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Repr. 1A	H360D
Acute Tox. 4 (Oral)	H302
Aquatic Acute 1	H400

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H302 - Harmful if swallowed
H360D - May damage the unborn child
H400 - Very toxic to aquatic life

Precautionary statements (CLP)

: P273 - Avoid release to the environment
P280 - Wear eye protection, protective gloves, face protection
P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell
P330 - Rinse mouth
P391 - Collect spillage
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

PBT: not yet assessed.

vPvB: not yet assessed.

SECTION 3: Composition/information on ingredients**3.1. Substances**

Name	Product identifier	%
ALBENDAZOLE	(CAS-No.) 54965-21-8 (EC-No.) 259-414-7 (REACH-no) &	100

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable.

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

First-aid measures general	: Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: If skin irritation or rash occurs: Get medical advice/attention. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Get medical advice/attention if you feel unwell.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.



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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Sand. Foam. Dry powder.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : May ignite spontaneously if exposed to air.

Explosion hazard : Explosion may result if is dispersed and finds an ignition source.

Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide. Sulphur dioxide. Nitrous gasses.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate area. Fight fire remotely due to the risk of explosion. Stop leak if safe to do so.

Firefighting instructions : Eliminate all ignition sources if safe to do so. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Fight fire with normal precautions from a reasonable distance.

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Collect spillage.

6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Concerning personal protective equipment to use, see section 8.

Emergency procedures : Ventilate area. Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. On land, sweep or shovel into suitable containers.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls/personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Provide adequate ventilation of the area to prevent the formation of explosive atmospheres.

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take any precaution to avoid mixing with incompatible materials.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Provide adequate ventilation of the area to prevent the formation of explosive atmospheres.
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
Incompatible products	: Strong acids. Oxidizing agent. Strong bases.
Incompatible materials	: Heat sources. Sources of ignition.
Heat and ignition sources	: Keep away from sparks, heat, open flames, hot surfaces. - No smoking.
Prohibitions on mixed storage	: Incompatible materials.
Storage area	: Store in a well-ventilated place. Store in a dry place.
Special rules on packaging	: Store in a closed container. Keep only in original container.

7.3. Specific end use(s)

Restricted use as an active ingredient in pharmaceutical industry.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls



Appropriate engineering controls	: Ensure good ventilation of the work station. Provide adequate ventilation of the area to prevent the formation of explosive atmospheres.
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Respiratory protection	: Mask. P2
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Solid.
Colour	: No data available.
Odour	: odourless.
Odour threshold	: No data available.
pH	: No data available.
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: 208 - 210 °C
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: No data available.
Auto-ignition temperature	: No data available.

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Decomposition temperature	: No data available.
Flammability (solid, gas)	: No data available.
Vapour pressure	: No data available.
Relative vapour density at 20 °C	: No data available.
Relative density	: No data available.
Solubility	: No data available.
Log Pow	: 3,14 #
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Oxidising properties	:
Explosive properties	: No data available.
Class	: St2
Minimum ignition energy	: 18 - 20 mJ
Minimum Ignition Temperature (cloud)	: 490 °C
Minimum Ignition Temperature (layer)	: no ignition untl 400°C
Explosive limits	: No data available.

9.2. Other information

Minimum ignition energy : 18 - 20 mJ

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Overheating. Open flame.

10.5. Incompatible materials

Strong acids. Oxidizing agent. Strong bases.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

ALBENDAZOLE (54965-21-8)

LD50 oral rat	2400 mg/kg
Skin corrosion/irritation	: Not classified



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Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Not established.
Ecology - water	: Very toxic to aquatic life. Not established.

ALBENDAZOLE (54965-21-8)

EC50 Daphnia 1	0,024 mg/l
EC50 72h algae (1)	50 mg/l (Selenastrum Capricornutum)

12.2. Persistence and degradability

ALBENDAZOLE (54965-21-8)

Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

ALBENDAZOLE (54965-21-8)

Log Pow	3,14 #
Bioaccumulative potential	Not established.

12.4. Mobility in soil

ALBENDAZOLE (54965-21-8)

Ecology - soil	Not established.
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12.5. Results of PBT and vPvB assessment

ALBENDAZOLE (54965-21-8)

PBT: not yet assessed.
vPvB: not yet assessed.

12.6. Other adverse effects

Additional information	: Avoid release to the environment
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Avoid release to the environment. Do not pierce or burn, even after use.
Additional information	: Follow the instructions on handling and technical measures of paragraph 7. Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: 3077
UN-No. (IMDG)	: 3077
UN-No. (IATA)	: 3077

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ALBENDAZOLE)
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ALBENDAZOLE)
Proper Shipping Name (IATA)	: Environmentally hazardous substance, solid, n.o.s. (ALBENDAZOLE)
Transport document description (ADR)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ALBENDAZOLE), 9, III, (E)
Transport document description (IMDG)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ALBENDAZOLE), 9, III, MARINE POLLUTANT
Transport document description (IATA)	: UN 3077 Environmentally hazardous substance, solid, n.o.s. (ALBENDAZOLE), 9, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 9
Danger labels (ADR)	: 9



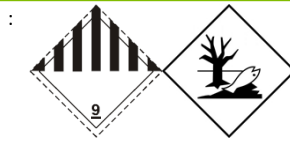
IMDG

Transport hazard class(es) (IMDG)	: 9
Danger labels (IMDG)	: 9



IATA

Transport hazard class(es) (IATA)	: 9
Hazard labels (IATA)	: 9



14.4. Packing group

Packing group (ADR) : III
 Packing group (IMDG) : III
 Packing group (IATA) : III

14.5. Environmental hazards

Dangerous for the environment : Yes
 Marine pollutant : Yes
 Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M7
 Special provisions (ADR) : 274, 335, 601, 375
 Limited quantities (ADR) : 5kg
 Excepted quantities (ADR) : E1
 Packing instructions (ADR) : P002, IBC08, LP02, R001
 Special packing provisions (ADR) : PP12, B3
 Mixed packing provisions (ADR) : MP10
 Portable tank and bulk container instructions (ADR) : T1, BK1, BK2
 Portable tank and bulk container special provisions (ADR) : TP33
 Tank code (ADR) : SGAV, LGBV
 Vehicle for tank carriage : AT
 Transport category (ADR) : 3
 Special provisions for carriage - Packages (ADR) : V13
 Special provisions for carriage - Bulk (ADR) : VC1, VC2
 Special provisions for carriage - Loading, unloading and handling (ADR) : CV13
 Hazard identification number (Kemler No.) : 90
 Orange plates :



Tunnel restriction code (ADR) : E
 EAC code : 2Z

- Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967, 969
 Limited quantities (IMDG) : 5 kg
 Excepted quantities (IMDG) : E1
 Packing instructions (IMDG) : P002, LP02
 Special packing provisions (IMDG) : PP12
 IBC packing instructions (IMDG) : IBC08
 IBC special provisions (IMDG) : B3



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Tank instructions (IMDG)	: T1, BK1, BK2, BK3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23
MFAG-No	: 171
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400kg
CAO packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400kg
Special provisions (IATA)	: A97, A158, A179, A197
ERG code (IATA)	: 9L

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
ALBENDAZOLE is not on the REACH Candidate List
ALBENDAZOLE is not on the REACH Annex XIV List

Seveso Information	: E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
Drug Precursors	: This product is not included in the lists of substances subject to diversion for illicit drug manufacture.
Chemical Weapons (Prohibition) Act	: This product is not included in the lists of the Chemical Weapons Convention.

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed

Denmark

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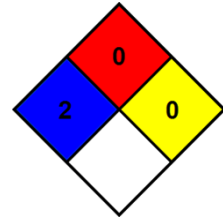
Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product.
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

NFPA (National Fire Protection Association)

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.

**15.2. Chemical safety assessment**

Exempted from REACH registration.

SECTION 16: Other information

Indication of changes:

2.2	Hazard symbols	Removed
2.2	S-phrases	Removed
2.2	R-phrases	Removed

Abbreviations and acronyms:

#	Estimated or calculated values.
&	Exempt under REACH for Active Ingredients, <1000 kg, natural substances...

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Repr. 1A	Reproductive toxicity, Category 1A
H302	Harmful if swallowed
H360D	May damage the unborn child
H400	Very toxic to aquatic life

SDS EU (Anexo II REACH)

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