

SAFETY DATA SHEET (SDS)

TITLE: ACEQUINOCYL 164 SC

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Identifier

Identification on the label / Trade name : AG ACEQUINOCYL 164 SC
Common Name : ACEQUINOCYL 164 g/l SC
CAS No. : 57960-19-7
EC No. : 611-595-7
REACH registration No. : N/A

Relevant identified uses of the substance and uses advised against:

Agricultural Pesticide

Details of the Manufacturer / Supplier of the safety data sheet:

Supplier : AGROMECC SARL
P.O.Box: 462
Jounieh, Lebanon
Tel : +961 9 226874
E-mail : agromec@agromec-international.com
Webpage : www.agromec-international.com

Emergency Phone Number (24 hours)

+961 3 980599

2.0 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
STOT RE 2: H373 (blood system) Aquatic Acute 1: H400
Aquatic Chronic 1: H410

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Pictogram



Signal word Warning

Hazard statements

H373: May cause damage to the blood system through prolonged or repeated exposure. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements

[Prevention]

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.

P260: Do not breathe mist/vapours/spray. P273:

Avoid release to the environment.

[Emergency response]

P314: Get medical advice/attention if you feel unwell. P391: Collect spillage.

[Disposal]

P501: Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Additional information:

Contains acequinocyl (ISO), chlorothalonil (ISO), 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction. To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

According to Regulation (EC) No 1272/2008
See section 12 - Results of PBT and vPvB assessment.

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances Not applicable

3.2. Mixtures

Chemical nature: Information on ingredients:

Crop protection product, acaricide, suspension concentrate (SC)

Chemical name	CAS No./ EC No./ Index No.	REACH Registration No.*	Concentration (wt %)	Classification**	Specific Concentration limits
Acequinocyl (ISO)	57960-19-7/ 611-595-7/ 606-144-00- 6	-	10 - 20	Skin Sens. 1: H317 STOT SE 1: H370 (lung) (inhalation) STOT RE 2: H373 (blood system) Aquatic Acute 1: H400 Aquatic Chronic 1:	M = 1000
Propane-1,2- diol	57-55- 6/ 200-338-	-	2 - 5	-	-
1,2- benzisothiazolin -3-	2634-33-5/ 220-120-9/ 613-088-00- 6	-	< 1	Acute Tox. 4: H302 Skin Irrit. 2: H315 Skin Sens. 1:	Skin Sens. 1; H317: C ≥ 0.05%

* Registration numbers of ingredients which shall be in compliance with Regulation (EC) No 1907/2006 will be filled in later.

4.0 FIRST AID MEASURES

4.1. Description of first aid measures

General information:

Immediately remove any clothing soiled by the product. Take affected persons out into the fresh air.

Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. If contact lenses are worn, remove after 5 minutes of rinsing, then continue rinsing.

After swallowing:

Do not induce vomiting; call for medical help immediately and show this material safety data sheet. Rinse mouth with plenty of water; do not swallow.

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

No further relevant information available.

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

Symptomatic treatment (decontamination, vital functions), no specific antidote known.

5.0 FIRE – FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media:

Water with full jet

5.2. Special hazards arising from the substance or mixture

In case of fire, the following can be released:

carbon oxides (CO,

CO₂) Nitrogen

oxides (NO_x) Sulfur

oxides (SO_x)

Phosphor oxides (e.g.

P₂O₅) Metal oxides

Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3. Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

Additional information

Do not inhale explosion gases or

combustion gases. Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated firefighting water in accordance with official regulations. Collect contaminated firefighting water separately. It must not enter the sewage system.

6.0 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

Wear suitable protective equipment (see Section 8) e.g., safety gloves, protective mask and/or protective glasses to prevent exposure.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Avoid contact with spilled product or contaminated areas. Avoid contamination with clothing.

Prevent formation of aerosols.

6.2. Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Disposal had to be accomplished in suitable receptacles.

If possible, clean area with detergent and much water. Absorb wash liquid with absorbent and transfer to suitable containers for disposal.

Larger spills of the product which soak into the ground should be dug up and transferred to suitable containers for disposal.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

Wear personal protection equipment.

Immediately remove all soiled and contaminated clothing

Wash contaminated clothing before reuse.

Wash hands before breaks and at the end of work. Do not eat, drink or smoke in work areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Information about fire - and explosion protection:

Protect from heat.

Keep ignition sources away - Do not smoke.

7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Keep containers tightly closed in a dry, cool and well-ventilated place. Store only in the original receptacle.

Information about storage in one common storage facility: Do not store together with foodstuffs, beverages and feed. Further information about storage conditions:

Protect from frost.

Store in the dark.

Store in cool, dry conditions in well-sealed receptacles. Protect from heat and direct sunlight.

Keep out of reach for children.

Recommended storage

temperature: Store between

5 °C and 30 °C.

Storage class:

10 (TRGS 510): Combustible liquids

7.3. Specific end use(s):

Use only in accordance with the instruction manual.

8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:

EU IOELV (2009): Not applicable

ACGIH TLV-TWA (2016): Not applicable

ACGIH TLV-STEL (2016): Not applicable

57-55-6 Propyleneglycol

WEL Long-term value: 150 ppm, 474 mg/m³ (total vapour and particulates), 10 mg/m³ (particulates)

Additional information: The lists valid during the making were used as basis.

8.2. Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed. Do not eat, drink, smoke or sniff while working. Avoid contact with the eyes and skin.

Do not breath in aerosols.

Respiratory protection:

Respiratory single serving mask DIN EN 149 with filter FFP2

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Preventive skin protection by

use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore, to be checked prior to the application. Recommended are gloves

made of:

Nitrile, recommended thickness of the material: > 0.11 mm

Penetration time of glove material

Penetration time 480 minutes (Permeation according to EN 374 Part 3: Level 6) e.g. for Dermatril® The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed

goggles Body

protection:

Protective suit against pesticides (DIN 32 781).

Sturdy shoes (e.g. rubber boots)

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form	Fluid
Colour	Light yellow
Odour	Detergent
like Odour threshold	No
information	
pH	7.10 (CIPAC MT 75.2) ((1 g/l) at 22°C)
Melting point/freezing point	Not determined.
Initial boiling point	> 100°C
and boiling range	
Flash point	> 100°C (EEC A.9)
Evaporation rate	No information
Flammability (solid, gas)	No information
Upper/lower	No information
flammability or	
explosive limits	
Vapour pressure	No information
Vapour density	No information
Relative density	1.04 g/L (OECD 109) (Density at 20°C)
Solubility (ies)	Solubility in / Miscibility with water: Dispersible.
Partition	No information
coefficient: n-	
octanol/water	
Auto-ignition temperature	Product is not selfigniting. (EEC A.15).
Decomposition temperature	No information
Viscosity	Dynamic at 20°C: 422 mPas (CIPAC MT 22) Kinematic at 40°C: 217 mm ² /s (CIPAC MT 22)
Explosive	Product does not present an explosion hazard (EEC A.14)
properties	
Oxidising properties	No information

10.0 STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions:

No dangerous reactions known.

10.4. Conditions to avoid:

Extremes of temperature and direct sunlight.

10.5. Incompatible materials:

No further relevant information available.

10.6. Hazardous decomposition products:

No hazardous decomposition products if stored and used according to specifications. See section 5 for information about hazardous decomposition products in case of fire.

11.0 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Oral LD₅₀ > 5000 mg/kg (rat) (OECD

401) Dermal LD₅₀ > 2000 mg/kg (rat) (OECD

402) Inhalative LC₅₀/4h > 4.56 mg/L (rat, mist)

(OECD 403) Primary irritant effect:

on the skin Not irritant (JMAFF 59 NohSan No. 3850).

on the eye Not irritant (JMAFF 59 NohSan No. 4200).

Sensitization:

Slight fully reversible effects observed (OECD 406, Magnusson & Kligman). Results were not regarded as being relevant for the classification.

Acute effects (acute toxicity, irritation and corrosivity)

Acute toxicity studies done with the product did not show specific organ toxicity.

Repeated dose toxicity

Acequinocyl: In several in-vivo studies with several species haemorrhages and haematological effects

(including reversible effects on clotting) were observed.

12.0 ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity to fish:

LC₅₀ (96 h) (flow-through) LC₅₀ (96 h) 65 mg a.i./L (rainbow trout) (OECD 203)

(flow-through) LC₅₀ (96 h) > 68 mg a.i./L (*Cyprinodon variegatus*) (FIFRA 72-3, OPPTS 850.1075)

(flow-through) LC₅₀ (96 h) (flow-through) > 90 mg a.i./L (*Lepomis macrochirus*) (FIFRA 72-3, OPPTS 850.1075)

(96 h) (flow-through) 633 mg/L (*Cyprinus Carpio*) (JMAFF)

LC₅₀ (96 h) (semi-static)

Toxicity to aquatic invertebrate:

EC₅₀ (48 h) (semi-static) Toxicity to aquatic plant: ErC₅₀ (72 h)

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects No further relevant information available.

Additional ecological information: Very toxic for water organisms.

General notes: Do not allow product to reach ground water, water course or sewage system, even in small quantities.

13.0 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product

In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant. Contaminated packaging

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the product.

Do not reuse packing for other products.

14.0 TRANSPORT INFORMATION

Classification for ROAD and Rail transport:

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Acequinocyl)
UN number	UN 3082
Class	9
Packing group	III
Environmental hazards	Acequinocyl

Classification for SEA transport (IMO-IMDG):

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Acequinocyl)
UN number	UN 3082
Class	9
Packing group	III
Marine pollutant	yes

Classification for AIR transport (IATA/ICAO):

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.(Acequinocyl)
UN number	UN 3082
Class	9
Packing group	III

15.0 REGULATORY INFORMATION

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

Water hazard class:

It must be excluded that plant protection products reach ground water, water course or sewage system. Therefore, they have to be stored like substances which are classified as Water Hazard Class 3. (Consequently, it is not necessary to classify plant protection products into Water Hazard Classes and to mark them in this case.)

15.2. Chemical safety assessment:

A chemical safety assessment has not been carried out.

16.0 OTHER INFORMATION

The information contained herein relates only to the specified material identified. AGROMEK believes that such information is accurate and reliable as of the data of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. AGROMEK urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.