#### **Material Safety Data Sheet**

acc. to EC reg. 453/2010



 Product:
 AMALGEROL

 Version:
 2015/2

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 16.06.2015

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## Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifier** Trade name: AMALGEROL

**1.2** Relevant identified uses of the substance or Bio-stimulant and soil conditioner for use in agriculture and horti-

mixture and uses advised against culture.

**1.3 Details of the supplier of the MSDS** Hechenbichler GmbH, Cusanusweg 7-9, A-6020 Innsbruck, Austria.

g.hechenbichler@amalgerol.com, T +43 512 29 18 10-15, F -23

**1.4 Emergency telephone number** during office hours see chapter 1.3, otherwise call Vienna General

Hospital, toxic substance emergency T +43 1 406 43 43

#### 2. Hazards identification

2.3 Other hazards

2.1 Classification of the substance or mixture This product is classified according to regulation (EC) No.

1272/2008 (CLP) and directives 67/548/EEC (GHS) and 1999/45/EC

(CHIP).

Hazard and Precautionary statements: see in chapters 2.2, 2.3 and

3.

2.2 Label elements Classification under CLP:

Hazard class/hazard pictogram: Aqu. Chron. 3 / no pictogram

Signal words: N.A. Hazard statements:

H402 Harmful to aquatic life

H412 Harmful to aquatic life with long-lasting effects

Precautionary statements:

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.

P273 Avoid release to the environment.

**Classification under CHIP:** 

Symbol: N.A.

Indication of danger: N.A. Risk phrases (R-phrases):

R52 Harmful to aquatic organisms

R53 May cause long-term adverse effects in the aquatic environ-

ment

Safety phrases (S-phrases):

S2 Keep out of the reach of children

S61 Avoid release to the environment. Refer to special instructions/

safety data sheet

S56 Dispose of this material and its container at hazardous or spe-

cial waste collection point

Hazards to the environment: see chapter 12.

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According to expertises of Leopold Franzens University Innsbruck, Department of Microbiology, of 15.05.2000 (Amalgerol) and 22.01.2001 (Güllemax), no hazard to water ecosystems if product is used according to the guidelines.

## 3. Composition/information on ingredients

3.1 Substances

3.2 Mixtures

N.A.

Trade name: AMALGEROL

Ingredients:

Plant extracts, essential oils and fatty acids in  $\ensuremath{\text{O/W}}$  emulsion, algae

extract

Hazardous ingredients according to CHIP and CLP:

Isoparaffin L, Synthesis Grade

CAS: 64742-48-9
EINECS: 265-150-3
Concentration 10 < C < 25

Classification CHIP/CLP: Xn; N / Flam. Liq. 3; Asp. Tox 1; Aqu.Chron.

2; STOT SE 3 R-phrases:

R65 Harmful: may cause lung damage if swallowed

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R10/66/67 Flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

H-phrases:

H226 Flammable liquid and vapour

H304 May be fatal if swallowed and enters airways

H411 Toxic to aquatic life with long-lasting effects

H336 May cause drowsiness or dizziness

Solvent naphta (petroleum), light arom.

CAS: 64742-95-9 EINECS: 265-199-0 Concentration 2,5 ≤ C ≤ 5

Classification CHIP/CLP: Xn; Xi; N, Flam Liq. 3; Asp.

Tox 1; Aqu. Chron. 2, STOT SE 3

R-phrases:

R37 Irritating to respiratory system

R65 Harmful: may cause lung damage if swallowed

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R10/66/67 Flammable. Repeated exposure may cause skin dryness

or cracking. Vapours may cause drowsiness and dizziness.

H-phrases:

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H226 Flammable liquid and vapour

H304 May be fatal if swallowed and enters airways H411 Toxic to aquatic life with long-lasting effects

H335 May cause respiratory irritation H336 May cause drowsiness or dizziness

The used hydrocarbon mixture contains less than 0,1% of benzol.

#### 4. First aid measures

4.1 Description of first aid measures Show material safety data sheet to the doctor in all cases.

Remove contaminated clothing immediately.

After eye contact: Rinse open eye with clean water for at least 15

minutes.

If irritation persists for more than 30 minutes, seek medical advice. After ingestion: Rinse mouth and drink plenty of water. Immediate-

ly consult a doctor and show this data sheet.

Do not induce vomiting.

After inhalation: Supply fresh air. If any effects occur, seek medical advice. After intensive inhalation, seek medical advice immediate-

ly. N.A.

4.2 Most important symptoms and effects, both

acute

and delayed

4.3 Indication of any immediate medical attenti- Consult a doctor and show this safety data sheet in case of doubt or on and special treatment needed if irritations persist.

#### 5. Firefighting measures

5.1 Extinguishing media Adapt actions for fire extinction to local conditions.

Suitable fire extinguishing media: water spray jet, carbon dioxide or

fire extinguishing powder.

Unsuitable fire extinguishing media: N.A.

5.2 Special hazards arising from the substance or The decomposition of the product can cause the formation of toxic

mixture

gases, e.g. CO and CO2.

5.3 Advice for fire fighters Use appropriate breathing apparatus. Collect contaminated water

seperately. Not to be disposed of via wastewater. If possible, remo-

ve undamaged container out of danger area. Cool intact containers with water spray or fog.

### 6. Accidental release measures

and emergency procedures

**6.1** Personal precautions, protective equipment Avoid contact with eyes and skin. Wear protective clothing. See

Provide adequate ventilation. Do not eat, drink or smoke and keep

away sources of ignition. Wear safety glasses.

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6.2 Environmental precautions

Keep away from drains, surface and ground water.

6.3 Methods and material for containment and

cleaning up

Absorb rests into sand, kieselguhr, binders for acid, universal binders or sawdust. Wash contaminated surfaces with warm water and soap. Disposal of residues according to governmental regulations. In case of release of large quantity inform the authorities.

**6.4 Reference to other sections** See chapter 8 and 13.

## 7. Handling and storage

**7.1 Precautions for safe handling**Do not eat, drink or smoke during work. Wash hands after using this

product. Wear protective clothing and gloves. Prove durability of

protective items in advance.

7.2 Conditions for safe storage, including any

incompatibilities

8.2 Exposure controls

Store the product in its original packaging in ventilated places between +5°C and +25°C. Protect from frost, heat and direct sun.

Keep container tightly closed.

Do not store near food or feedingstuff. Keep out of reach of children.

**7.3 Specific end use(s)** See chapter 1.

## Exposure controls/personal protection

**8.1 Control parameters** Respect workplace exposure limit 200 ppm for hydrocarbons.

Follow the usual hygienic and protection guidelines when working with chemicals. Do not eat, drink and smoke during work. Wash hands after using this product. Wear protective clothing and gloves.

Prove durability of protective items in advance.

Wear safety glasses.

Do not breathe gases/aerosols/vapours/dust.

Wear respiratory protection (filter class A/P1) when ventilation is

insufficient and in case of long exposition.

Hand protection: wear solvent-proof gloves (made of e.g. fluororub-

ber/viton or nitrile rubber)

# 9. Physical and chemical properties

9.1 Information on basic physical and chemical

properties

appearance: liquid, brownish

odour: characteristic
odour treshold: N.A.

**pH**: 8,5

melting/freezing point: N.A.

initial boiling point and boiling range: 100°C

flash point: 48°C evaporation rate: N.A.

flammability (solid, gas): the product is not self-sustaining com-

bustible

upper/lower flammability: 0,6 Vol % / 7,0 Vol %.

vapour pressure at 20°C: N.A. vapour density: 23 hPA

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relative density: 0,97 g/cm<sup>3</sup>

solubility: N.A.

partition-coeffizient: n-octanol/water: N.A.

auto-ignition temperature: N.A. decomposition temperature: N.A.

viscosity: N.A.

explosive properties: N.A. oxidising properties: N.A.

9.2 Other information The product is not self-igniting and not self-sustaining combusti-

ble.

### 10. Stability and reactivity

**10.1 Reactivity** Stable under recommended transport, use and storage conditions.

**10.2 Chemical stability**No decomposition under recommended transport, use and storage

conditions.

**10.3 Possibility of hazardous reactions**No hazardous reactions under recommended transport, use and

storage conditions.

**10.4 Conditions to avoid** Avoid heat, sources of ignition and direct sun.

Avoid frost.

10.5 Incompatible materials

**10.6** Hazardous decomposition products

No hazardous decomposition products are known when product is

N.A.

transported, used and stored according to the guidelines.

# 11. Toxicological information

#### 11.1 Information on toxicological effects

acute toxicity:

**Toxicity values** for hydrocarbon mixture (component of the product):

- LD50>5000 mg/kg oral (rat)

- LD50>2000 mg/kg dermal (rabbit)

skin corrosion/irritation: N.A.

serious eye damage/irritation: N.A. respiratory or skin sensitisation: N.A.

germ cell mutagenicity: N.A.

carcinogenicity: N.A.

reproductive toxicity: N.A.

STOT-single exposure: N.A. STOT-repeated exposure: N.A.

aspiration hazard: N.A.

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12.6



### 12. Ecological information

12.1 Use according to good agricultural practice. . Toxicity

Not toxic in recommended dosage (see expertises in chapter 2.3)

12.2 Persistence and degradability Biodegradable.

12.3 Bioaccumulative potential N.A.

12.4 Mobility in soil Readily absorbed into soil.

12.5 Results in PBT and vPvB assessment This substance is not identified as a PBT nor as vPvB substance.

> Product contains substances that are harmful to aquatic organisms. If used properly, product is not hazardous to waters and soils (see expertises in chapter 2.3). However, keep the product away from

drains, surface and ground water.

# 13. Disposal considerations

Other adverse effects

13.1 Waste treatment methods If possible, use the whole amount of the product. Dispose of resi-

> dues according to local and national guidelines of authorities. Dispose emtied containers in assigned collection points.

# 14. Transport information

No hazardous good acc. to ADR/RID, GGVS/GGVE, IMDG/GGVSee, ICAO-TI/IATA-DGR.

This product does not require a classification for transport.

14.1 UN number No hazardaous good according to transport regulations.

14.2 UN proper shipping name N.A. 14.3 Transport hazard class(es) N.A. 14.4 Packing group N.A. 14.5 Environmental hazards N.A. 14.6 Special precautions for users N.A.

14.7 Transport in bulk according to Annex II of N.A.

MARPOL 73/78 and the IBC Code

# 15. Regulatory information

Safety, health and environmental regulati-

mixture

This product is classified according to regulation CLP and REACH. No ons/legislation specific for the substance or further regulations for health and environment protection do apply to this product.

15.2 **Chemical Safety Assessment** A chemical safety assessment for this product has not been carried

out by the supplier.

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#### 16. Other information

First or totally renewed version of this material safety data sheet. Changes have been made in all chapters.

The information in this document is based on our current knowledge. They describe the safety relevant properties and needs of the product. A claim on guaranty in case of damage cannot be derived. We recommend safety and first aid training courses to all persons who use this product.

#### Data sources:

IUCLID (International Uniform Chemical Information Database) of European Chemicals Agency ECHA Material safety data sheets supplied by the producer.

Department issuing MSDS: Hechenbichler GmbH, siehe Punkt 1.3

### R-phrases, S-phrases, H-phrases und P-phrases:

Where these phrases appear, they are written in full.

#### **Abbreviations:**

ADR/RID, GGVS/GGVE, IMDG/GGVSee, ICAO-TI/IATA-	International transport standards for road and rail, ship and flight
DGR, MARPOL, IBC	cargo.
CAS, EC-No.	Chemical Abstract Service, European Community number
	Regulations for classification, packaging and labelling of hazar-
CHIP	dous substances and mixtures.
CLP	EC-regulation for classification and labelling of chemicals.
EINECS	European Inventory of Existing Commercial chemical Substances
Flam Lig.; Asp. Tox; Aqu. Chron., STOT SE	Hazard description in the indicated class, according to CLP: flam-
	mable liquid, aspiration hazard, aquatic chronic, specific target
	organ system toxicity - single exposure
GHS	Globally Harmonized System of Classification, Labelling and Packa-
	ging of Chemicals
H-phrases	Hazard statements under GHS
LD50	median lethal dose
N.A.	no answer, not applicable, not available
P-phrases	Precautionary statements under GHS
РВТ	Persistent bioaccumulative toxic chemical
R-phrases	Risk phrases according to guideline 67/548/EEC
	EC-regulation for Registration, Evaluation, Authorisation and
REACH	Restriction of Chemicals
S-phrases	Safety phrases according to guideline 67/548/EEC
STOT	Specific Target Organ system Toxicity.
vPvB	very persistent and very bioaccumulative chemical
Xn; Xi; N	Hazard description according to CHIP: harmful, irritant, dan-
	gerous for the environment