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## **DYNONE ENERGY SL840 12X1L BOT IL**

Version 9 / EU Revision Date: 17.12.2018 102000004473 Print Date: 23.03.2020

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name DYNONE ENERGY SL840 12X1L BOT IL

**Product code (UVP)** 06396712, 81705194

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

**Use** Fungicide

1.3 Details of the supplier of the safety data sheet

**Supplier** Bayer AG

Kaiser-Wilhelm-Allee 1 51373 Leverkusen

Germany

**Telefax** +49(0)2173-38-7394

**Responsible Department** Substance Classification & Registration

+49(0)2173-38-3409 (during business hours only)

Email: BCS-SDS@bayer.com

1.4 Emergency telephone no.

**Emergency telephone no.** Global Incident Response Hotline (24h)

+1 (760) 476-3964 (Company 3E for Bayer AG, Crop Science Division)

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Skin sensitisation: Category 1

H317 May cause an allergic skin reaction.

#### 2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

- Propamocarb
- Fosetyl





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Signal word: Warning

**Hazard statements** 

H317 May cause an allergic skin reaction.

EUH401 To avoid risks to human health and the environment, comply with the instructions for

use.

**Precautionary statements** 

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

No other hazards known.

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2 Mixtures

#### Chemical nature

Soluble concentrate (SL) Propamocarb/Fosetyl 530:310 g/l

#### **Hazardous components**

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. /	Classification	Conc. [%]
	EC-No. / REACH Reg. No.	REGULATION (EC) No 1272/2008	
Propamocarb	24579-73-5	Skin Sens. 1, H317	47,30
Fosetyl	15845-66-6	Eye Dam. 1, H318	27,70
Sodium chloride	7647-14-5 231-598-3	Not classified	>= 1,0

#### **Further information**

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: FIRST AID MEASURES**

## 4.1 Description of first aid measures

General advice Move out of dangerous area. Remove contaminated clothing

immediately and dispose of safely.

**Inhalation** Move the victim to fresh air and keep at rest. If symptoms persist, call a

physician.

**Skin contact** Wash off with soap and water. If symptoms persist, call a physician.



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**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If eye irritation or redness persists,

see an ophthalmologist.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Call a physician or poison

control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

**Symptoms** The following symptoms may occur:, Lethargy, Ataxia, Spasm, Local:,

sensitising effects

4.3 Indication of any immediate medical attention and special treatment needed

**Risks** This product, although being a carbamate, is NOT a cholinesterase

inhibitor.

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the

patient's condition is recommended. There is no specific antidote. Contraindication: atropine. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate.

#### **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

**Unsuitable** High volume water jet

5.2 Special hazards arising from the substance or

mixture

ance or

In the event of fire the following may be released:, Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO),

Oxides of phosphorus, Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment for firefighters

In the event of fire and/or explosion do not breathe fumes. In the event

of fire, wear self-contained breathing apparatus.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from

fire fighting to enter drains or water courses.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment and emergency procedures

**Precautions** Avoid contact with spilled product or contaminated surfaces. Use

personal protective equipment.

6.2 Environmental

precautions

Do not allow to get into surface water, drains and ground water.



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#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid

> binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly,

observing environmental regulations.

Additional advice Check also for any local site procedures.

6.4 Reference to other

sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

#### **SECTION 7: HANDLING AND STORAGE**

## 7.1 Precautions for safe handling

Advice on safe handling Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion No special precautions required.

**Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes

separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Wash hands immediately after work, if necessary

take a shower.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from direct sunlight. Protect from freezing.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

Suitable materials HDPE (high density polyethylene) 7.3 Specific end use(s) Refer to the label and/or leaflet.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Propamocarb	24579-73-5	1,1 mg/m3 (TWA)		OES BCS*
Sodium chloride	7647-14-5	10 mg/m3 (TWA)		OES BCS*

<sup>\*</sup>OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

#### 8.2 Exposure controls

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.



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Respiratory protection Respiratory protection is not required under anticipated

circumstances of exposure.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's

instructions regarding wearing and maintenance.

**Hand protection** Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the

contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot

be removed. Wash hands frequently and always before eating,

drinking, smoking or using the toilet.

Material Nitrile rubber
Rate of permeability > 480 min
Glove thickness > 0,4 mm
Protective index Class 6

Directive Protective gloves complying with EN

374.

**Eye protection** Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection** Wear standard coveralls and Category 3 Type 4 suit.

If there is a risk of significant exposure, consider a higher protective

type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and

should be professionally laundered frequently.

**General protective measures** If product is handled while not enclosed, and if contact may occur:

Complete suit protecting against chemicals

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1 Information on basic physical and chemical properties

Form Liquid

Colour colourless to light yellow

**Odour** odourless

pH 6,0 - 7,5 (100 %) (23 °C) Flash point > 120 °C ( 1.013 hPa)

Ignition temperature 300 °C

**Density** ca. 1,12 g/cm³ ( 20 °C) **Water solubility** completely miscible

Partition coefficient: n-

octanol/water

Propamocarb: log Pow: 0,84

Fosetyl: log Pow: -0,70



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Viscosity, kinematic 36,9 mm²/s ( 40 °C) Surface tension 59 mN/m ( 20 °C)

Determined as a 1% solution in distilled water.

**Explosivity** Not explosive

92/69/EEC, A.14 / OECD 113

**9.2 Other information** Further safety related physical-chemical data are not known.

#### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity

**Thermal decomposition** Stable under normal conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

**10.3 Possibility of**No hazardous reactions when stored and handled according to

hazardous reactions prescribed instructions.

**10.4 Conditions to avoid** Extremes of temperature and direct sunlight.

**10.5 Incompatible materials** Store only in the original container.

10.6 Hazardous

decomposition products

No decomposition products expected under normal conditions of use.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 2.000 mg/kg
Acute inhalation toxicity LC50 (Rat) > 2,27 mg/l

Exposure time: 4 h

Highest attainable concentration.

Acute dermal toxicity

Skin corrosion/irritation

Serious eye damage/eye

LD50 (Rat) > 2.000 mg/kg

No skin irritation (Rabbit)

No eye irritation (Rabbit)

irritation

Respiratory or skin Skin: Sensitising (Mouse)

sensitisation OECD Test Guideline 429, local lymph node assay (LLNA)

## Assessment STOT Specific target organ toxicity - single exposure

Propamocarb: Based on available data, the classification criteria are not met. Fosetyl: Based on available data, the classification criteria are not met.

#### Assessment STOT Specific target organ toxicity - repeated exposure

Propamocarb did not cause specific target organ toxicity in experimental animal studies. Fosetyl did not cause specific target organ toxicity in experimental animal studies.



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## **Assessment mutagenicity**

Propamocarb was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Fosetyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

#### **Assessment carcinogenicity**

Propamocarb was not carcinogenic in lifetime feeding studies in rats and mice. Fosetyl was not carcinogenic in lifetime feeding studies in rats and mice.

#### Assessment toxicity to reproduction

Propamocarb did not cause reproductive toxicity in a two-generation study in rats. Fosetyl did not cause reproductive toxicity in a two-generation study in rats.

#### Assessment developmental toxicity

Propamocarb caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Propamocarb are related to maternal toxicity. Fosetyl did not cause developmental toxicity in rats and rabbits.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) > 98 mg/l

Exposure time: 96 h

**Toxicity to aquatic** EC50 (Daphnia magna (Water flea)) > 97 mg/l

**invertebrates** Exposure time: 48 h

**Toxicity to aquatic plants** EC50 (Raphidocelis subcapitata (freshwater green alga)) > 97 mg/l

Exposure time: 72 h

12.2 Persistence and degradability

**Biodegradability** Propamocarb:

rapidly biodegradable

Fosetyl:

rapidly biodegradable

**Koc** Propamocarb: Koc: 719

Fosetyl: Koc: 0,1

12.3 Bioaccumulative potential

**Bioaccumulation** Propamocarb:

Does not bioaccumulate.

Fosetyl:

Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Propamocarb: Slightly mobile in soils

Fosetyl: Highly mobile in soils

#### 12.5 Results of PBT and vPvB assessment



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**PBT and vPvB assessment** Propamocarb: This substance is not considered to be persistent,

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

Fosetyl: This substance is not considered to be persistent.

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Additional ecological

information

No other effects to be mentioned.

#### **SECTION 13: 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** Not completely emptied packagings should be disposed of as

hazardous waste.

Waste key for the unused

product

02 01 08\* agrochemical waste containing hazardous substances

## **SECTION 14: TRANSPORT INFORMATION**

## According to ADN/ADR/RID/IMDG/IATA not classified as dangerous goods.

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

**14.1 – 14.5** Not applicable.

#### 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No transport in bulk according to the IBC Code.

#### **SECTION 15: REGULATORY INFORMATION**

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

#### **Further information**

WHO-classification: III (Slightly hazardous)

#### 15.2 Chemical safety assessment

A chemical safety assessment is not required.



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#### **SECTION 16: OTHER INFORMATION**

## Text of the hazard statements mentioned in Section 3

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

## Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by

**Inland Waterways** 

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

Conc. Concentration

EC-No. European community number ECx Effective concentration to x %

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances

EN European Standard EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk (IBC Code) Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

**IC**x

LOEC/LOEL Lowest observed effect concentration/level

MARPOL: International Convention for the prevention of marine pollution from ships

N.O.S. Not otherwise specified

NOEC/NOEL No observed effect concentration/level

OECD Organization for Economic Co-operation and Development

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

TWA Time weighted average

UN United Nations

WHO World health organisation

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

**Reason for Revision:** Section 3: Composition / Information on Ingredients. Section 8:

Exposure Controls / Personal Protection. Section 11: Toxicological

Information.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.