

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 18.07.2019

Version number 2

Revision: 18.07.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** PLAMEN**Formulation:** Soluble concentrate - SL**Active ingredient:** Dicamba (DMA salt)**Chemical family:** Benzoic acid**CAS Number:**

Dicamba: 1918-00-9

Dicamba DMA salt: 2300-66-5

EINECS Number:

Dicamba: 217-635-6

Dicamba DMA: 218-951-7

1.2 Relevant identified uses of the substance or mixture and uses advised against**Sector of Use** SU1 Agriculture, forestry, fishery**Product category** PC27 Plant protection products**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Galenika-Fitofarmacija AD

Batajnicki drum bb

11080 Zemun, Belgrade

tel: + 381 (11) 3072-301

fax: + 381 (11) 3072 310

e-mail: office@fitofarmacija.rs

1.4 Emergency telephone number:

Poison Control Center Military Medical Academy

Crnotravska 17, Belgrade, Serbia

tel: +381 (11) 3608-440, 00-24h

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS05

GHS09

Signal word Danger**Hazard-determining components of labelling:**

Betaines, C12-14(even numbered)-alkildimethyl

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H411 Toxic 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.

P264 Wash thoroughly after handling.

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P280 *Wear protective gloves / eye protection / face protection.*
 P302+P352 *IF ON SKIN: Wash with plenty of water.*
 P310 *Immediately call a POISON CENTER/doctor.*
 P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
 P332+P313 *If skin irritation occurs: Get medical advice/attention.*
 P362 *Take off contaminated clothing.*
 P391 *Collect spillage.*
 P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

Additional information:

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

Standard phrases for safety precautions

SP 1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

Safety precautions related to the environment (SPe):

SPe 4 To protect aquatic organisms/non-target plants do not apply on impermeable surfaces such as asphalt, concrete, cobblestones, railway tracks and other situations with a high risk of run-off.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substance Not applicable.

3.2 Chemical characterisation: Mixtures

Dangerous components:

CAS: 2300-66-5	3,6-dichloro-o-anisic acid, compound with dimethylamine (1:1)	25-50%
EINECS: 218-951-7	Eye Irrit. 2, H319; Aquatic Chronic 3, H412	
CAS: 66455-29-6	Betaines, C12-14 (even numbered)-alyldimetihyl	2.5-10%
	Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

Breathing difficulty

4.3 Indication of any immediate medical attention and special treatment needed

There is no specific antidote available. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Alcohol resistant foam

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*Dry chemicals, carbon dioxide, water***5.2 Special hazards arising from the substance or mixture***Hydrogen chloride (HCl)**Nitrogen oxides (NO_x)***5.3 Advice for firefighters****Protective equipment:** *Wear fully protective suit and self-contained respiratory protective device.***SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures***Keep people at a distance and stay on the windward side.**Wear protective equipment. Keep unprotected persons away.***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.**Do not allow to enter sewers/ surface or ground water.***6.3 Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Ensure adequate ventilation.***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.***SECTION 7: Handling and storage****7.1 Precautions for safe handling***Ensure good ventilation/exhaustion at the workplace.**Store in cool, dry place in tightly closed receptacles.***Information about fire - and explosion protection:** *No special measures required.***7.2 Conditions for safe storage, including any incompatibilities****Storage:***Store in a dry and cool place in original packaging.**Keep in a cool, dry place in tightly closed original containers. Keep away from foodstuffs, beverages and feed. Keep away from children.***Requirements to be met by storerooms and receptacles:** *No special requirements.***Information about storage in one common storage facility:***Store away from foodstuffs.**Store in a dry place, away from direct sunlight, heat and incompatible materials.***Further information about storage conditions:** *Keep container tightly sealed.***7.3 Specific end use(s)** *No further relevant information available.***SECTION 8: Exposure controls/personal protection****Additional information about design of technical facilities:** *No further data; see item 7.***8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:***The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.***Additional information:** *The lists valid during the making were used as basis.*

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8.2 Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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 can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

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 work clothing**Environmental exposure controls** No special precautions required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information****Appearance:**

Form:	Liquid
Colour:	Yellow
Odour:	Uncharacteristic.
Odour threshold:	Not determined.
pH-value:	5-9
Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	Not determined.
Flash point:	> 110 °C
Flammability (solid, gas):	Not applicable.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.

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Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	Data lacking.
Oxidising properties	Data lacking.
Vapour pressure:	Not applicable.
Density at 20 °C:	1.165 g/cm ³
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	Data lacking.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	Data lacking.
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity** Hazardous polymerisation does not occur.
10.2 Chemical stability Stable under normal handling and storage conditions.
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 Source of ignition, heat, fire, high humidity, sparks.
10.5 Incompatible materials: No further relevant information available.
10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects**
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

Oral	LD50	>2000 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)
Inhalative	LC50/4 h	>5 mg/l (Rat)

- Primary irritant effect:**
Skin corrosion/irritation:
 Causes skin irritation.
Serious eye damage/eye irritation:
 Causes serious eye damage.
Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- 12.1 Toxicity**
Aquatic toxicity:
 Toxic to aquatic life.

PLAMEN

EC50	> 100 mg/l (Alga) (72h)
	> 100 mg/l (Daphnia magna) (48 h)

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12.2 Persistence and degradability No further relevant information available.

Behaviour in environmental systems:

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxicological effects:

Remark:

Toxicity to honey bees:

The toxicity of Plamen was tested in both an acute contact and an oral toxicity test on honey bees. The contact LD50 (48 h) was > 100.0 µg a.i./bee. The oral LD50 (48 h) was > 109.1 µg a.i./bee.

Additional ecological information:

General notes:

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

Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official local regulation.

Uncleaned packaging:

Recommendation: Disposal must be made according to national official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR/RID/ADN, IMDG, IATA

UN3082

14.2 UN proper shipping name

ADR/RID/ADN, IMDG, IATA

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dicamba)

14.3 Transport hazard class(es)

ADR/RID/ADN, IMDG, IATA



Class

9 Miscellaneous dangerous substances and articles.

Label

9

14.4 Packing group

ADR/RID/ADN, IMDG, IATA

III

14.5 Environmental hazards:

Environmentally hazardous substance, liquid

Special marking (ADR/RID/ADN):

Symbol (fish and tree)

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

Danger code (Kemler):

90

14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

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Trade name: PLAMEN**UN "Model Regulation":**

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UN3082, ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S., 9, III (dicamba)

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3****15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.****SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Hazard phrases:*H314 Causes severe skin burns and eye damage.**H318 Causes serious eye damage.**H319 Causes serious eye irritation.**H412 Harmful to aquatic life with long lasting effects.***Abbreviations and acronyms:***ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3**** Data compared to the previous version altered.**