

Safety data sheet
according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 12.12.2023

Version number 3 (replaces version 2)

Revision: 12.12.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** MURAL**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

UFI: 99AH-XA8W-X30U-1V2U**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**Uses advised against** Herbicides**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

GALENIKA-FITOFARMACIJA a.d.

Batajnicki drum bb

11080 Belgrade

tel: + 381 (11) 3072-301

fax: + 381 (11) 3072 310

e-mail: office@fitofarmacija.rs

1.4 Emergency telephone number:

Poison Control Center

Ksaverska cesta 2, POB 291, 10000 Zagreb, Croatia

(+385) 01 2348 342

Emergency Tel. No. 112

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.

(Contd. on page 2)

Safety data sheet
according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 12.12.2023

Version number 3 (replaces version 2)

Revision: 12.12.2023

Trade name: MURAL

(Contd. of page 1)

*H318 Causes serious eye damage.**H411 Toxic to aquatic life with long lasting effects.***Precautionary statements***P102 Keep out of reach of children.**P264 Wash thoroughly after handling.**P273 Avoid release to the environment.**P280 Wear protective gloves/protective clothing/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).***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 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	
Index number: 607-044-00-5		
	Betaines, C12-14(even numbered)-alkildimethyl	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****General information:***Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician.****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.*

(Contd. on page 3)

Safety data sheet
according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 12.12.2023

Version number 3 (replaces version 2)

Revision: 12.12.2023

Trade name: MURAL

(Contd. of page 2)

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

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

There is no specific antidote available. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Alcohol resistant foam

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.

(Contd. on page 4)

Safety data sheet
according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 12.12.2023

Version number 3 (replaces version 2)

Revision: 12.12.2023

Trade name: MURAL

(Contd. of page 3)

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)** *Refer to the label.***SECTION 8: Exposure controls/personal protection****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.***8.2 Exposure controls****Appropriate engineering controls** *No further data; see section 7.***Individual protection measures, such as 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 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.***Hand protection****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.***Eye/face protection****Tightly sealed goggles****Body protection:** *Protective work clothing***Environmental exposure controls** *Prevent further spillage if is safe to do so.*

(Contd. on page 5)

Safety data sheet
 according to the REACH Regulation (EC) 1907/2006 amended by
 Regulation (EU) 2020/878

Printing date: 12.12.2023

Version number 3 (replaces version 2)

Revision: 12.12.2023

Trade name: MURAL

(Contd. of page 4)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Colour:	Yellow
Odour:	Uncharacteristic.
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined.
Boiling point or initial boiling point and boiling range	Not determined.
Flammability	Not applicable.
Lower and upper explosion limit	Data lacking.
Flash point:	> 110 °C
Auto-ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
pH	5.9
Viscosity:	Data lacking.
Solubility	Data lacking.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	1.165 g/cm ³
Vapour density	Not applicable.
9.2 Other information	No further relevant information available.
Form:	Liquid
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Crystallisation temperature / range:	
Oxidising properties	Data lacking.
Evaporation rate	Not applicable.

9.2.1. Information with regard to physical hazard classes

Explosives	Not applicable.
Flammable gases	Not applicable.
Aerosols	Not applicable.
Oxidising gases	Not applicable.
Gases under pressure	Not applicable.
Flammable liquids	Not applicable.
Flammable solids	Not applicable.
Self-reactive substances and mixtures	Not applicable.
Pyrophoric liquids	Not applicable.
Pyrophoric solids	Not applicable.
Self-heating substances and mixtures	Not applicable.
Substances and mixtures, which emit flammable gases in contact with water	Not applicable.
Oxidising liquids	Not applicable.
Oxidising solids	Not applicable.
Organic peroxides	Not applicable.
Corrosive to metals	Not applicable.

(Contd. on page 6)

Safety data sheet
 according to the REACH Regulation (EC) 1907/2006 amended by
 Regulation (EU) 2020/878

Printing date: 12.12.2023

Version number 3 (replaces version 2)

Revision: 12.12.2023

Trade name: MURAL**Desensitised explosives**

Not applicable.

(Contd. of page 5)

SECTION 10: Stability and reactivity

10.1 Reactivity Stable under recommended storage conditions.**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 hazard classes as defined in Regulation (EC) No 1272/2008**Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****MURAL**

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

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.**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity**Aquatic toxicity:**

Toxic to aquatic life.

MURAL

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

(Contd. on page 7)

Safety data sheet
 according to the REACH Regulation (EC) 1907/2006 amended by
 Regulation (EU) 2020/878

Printing date: 12.12.2023

Version number 3 (replaces version 2)

Revision: 12.12.2023

Trade name: MURAL

(Contd. of page 6)

12.2 Persistence and degradability Dicamba is non-persistent.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil Dicamba is very mobile in soil.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects
Remark:

The toxicity of product 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.

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.

Waste disposal key:

02 01 08* agrochemical waste containing dangerous substances

15 01 10* packaging containing residues of or contaminated by dangerous substances

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

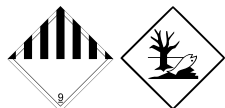
SECTION 14: Transport information

14.1 UN number or ID 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, IATA

Class

9 Miscellaneous dangerous substances and articles.

(Contd. on page 8)

Safety data sheet
 according to the REACH Regulation (EC) 1907/2006 amended by
 Regulation (EU) 2020/878

Printing date: 12.12.2023

Version number 3 (replaces version 2)

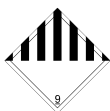
Revision: 12.12.2023

Trade name: MURAL

(Contd. of page 7)

Label

9

IMDG**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)

Special marking (IATA):

Symbol (fish and tree)

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

Hazard identification number (Kemler code):

90

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:**ADR/RID/ADN**

Exempted from ADR+LQ (UN3077+ 3082 Class 9) according to extra provision ADR SV375 as of 01.01.15. "375. These substances when carried in single or combination packaging containing net quantity per single or inner packaging of 5 lit or less for liquids having a nett mass per single or inner packaging of 5KG or less for solids, are not subject to any other provisions."

UN "Model Regulation":

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**Directive 2012/18/EU**

Named dangerous substances - ANNEX I None of the ingredients is listed.

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.

(Contd. on page 9)

Safety data sheet
according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 12.12.2023

Version number 3 (replaces version 2)

Revision: 12.12.2023

Trade name: MURAL

(Contd. of page 8)

*H412 Harmful to aquatic life with long lasting effects.***Date of previous version:** 05.02.2018**Version number of previous version:** 2**Abbreviations and acronyms:***ADR: Accord relatif au transport international 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*