

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

Printing date: 25.01.2019

Version number 2

Revision: 25.01.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier**Trade name:** BASAR**Formulation:** Emulsifiable concentrate - EC**Active ingredient:** S-Metolachlor**CAS Number:** S-Metolachlor: 87392-12-9 (S-isomer), 178961-20-1 (R-isomer)**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use** SUL Agriculture, forestry, fishery**Product category** PC27 Plant protection products**Application of the substance / the mixture** Herbicides**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**

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very 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

GHS07 GHS09

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

S-metolachlor

Benzenesulphonic acid, mono C10-13-linear alkyl derivates, calcium salt
iso-butanol**Hazard statements**

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H410 Very 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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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- P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing.
P363 Wash contaminated clothing before reuse.
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: 87392-12-9 Index number: 607-432-00-4	S-metolachlor Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	86.5%
CAS: 99734-09-5	Ethoxylated polyarylphenol Aquatic Chronic 3, H412	2.5-10%
EC number: 932-231-6	Benzenesulphonic acid, mono C10-13-linear alkyl derivates, calcium salt Eye Dam. 1, H318; Skin Irrit. 2, H315	< 3%
CAS: 78-83-1 EINECS: 201-148-0 Index number: 603-108-00-1	iso-butanol Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336	< 3%
EC number: 918-811-1	Solvent naphtha (petroleum), heavy arom. Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	< 2.5%

Additional information: For the wording of the listed hazard phrases refer to section 16.

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.

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After inhalation:*Call a doctor immediately.**Supply fresh air.**If breathing is difficult, administer artificial respiration.***After skin contact:***If skin irritation continues, consult a doctor.**Immediately wash with water and soap and rinse thoroughly.**After eye contact: Rinse opened eyes for several minutes under running water.**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:***CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.***For safety reasons unsuitable extinguishing agents:***Do not use a solid water stream as it may scatter and spread fire.***5.2 Special hazards arising from the substance or mixture***During heating or in case of fire poisonous gases are produced.***5.3 Advice for firefighters****Protective equipment:** *Wear fully protective suit and self-contained respiratory protective device.***Additional information** *Cool endangered receptacles with water spray.*

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures*Keep away from ignition sources.**Wear protective equipment. Keep unprotected persons away.**Ensure adequate ventilation***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*Store in cool, dry place in tightly closed receptacles.**Ensure good ventilation/exhaustion at the workplace.**Prevent formation of aerosols.***Information about fire - and explosion protection:***In case of fire do not breathe fumes.**Use personal protective equipment.*

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7.2 Conditions for safe storage, including any incompatibilities

Storage: Store in a dry and cool place in original packaging.

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: None.

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:

CAS: 87392-12-9 S-metolachlor

10 mg/m³ (8 h TWA)

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

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

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 (EN 374).



Protective gloves

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: Wear eye/face protection

Body protection: Use protective suit.

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 to brown
Odour:	Mild
Odour threshold:	Not determined.

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pH-value:	4-8
Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	334 °C
Flash point:	> 80 °C
Flammability (solid, gas):	Product is not flammable.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	Data lacking.
Lower:	Not determined.
Upper:	Not determined.
Oxidising properties	Not applicable.
Vapour pressure:	Not determined.
Density at 20 °C:	1.11 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water:	Emulsifiable.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	Data lacking.
Dynamic:	Not determined.
Kinematic:	Not determined.
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** No further relevant information available.
- 10.5 Incompatible materials:** Oxidizing materials.
- 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:

CAS: 87392-12-9 S-metolachlor

Oral	LD50	3267 mg/kg (Rat)
Dermal	LD50	> 2000 mg/kg (Rabbit)
Inhalative	LC50/4 h	> 2.91 mg/l (Rat)

Primary irritant effect:

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

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

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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:

CAS: 87392-12-9 S-metolachlor

EC50	26 mg/l (<i>Daphnia magna</i>)
	0.023 mg/l (<i>Lemna gibba</i>)
EbC50	0.008 mg/l (<i>Alga</i>)
LC50	1.23 mg/l (<i>Fish</i>)

12.2 Persistence and degradability

S-metolachlor is not persistent in soil. DT50=12-46 days.

S-metolachlor is not persistent in water. DT50=53-147 days.

Behaviour in environmental systems:

12.3 Bioaccumulative potential *S-Metolachlor* does not bioaccumulate.

12.4 Mobility in soil *S-metolachlor* has medium mobility in soil.

Ecotoxicological effects:

Remark: Very toxic for fish

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

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:

Empty containers rinse with water at least three times and empty the tank sprayers and washings remains use in application.

Never use empty containers for other purposes. Unused containers and waste packaging deliver over to an authorized center for collection of hazardous waste.

Disposal must be made according to national official regulations.

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SECTION 14: Transport information

14.1 UN-Number

ADR/RID/ADN, IMDG, IATA

UN3082

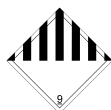
14.2 UN proper shipping name

ADR/RID/ADN, IMDG, IATA

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (s-metolachlor)

14.3 Transport hazard class(es)

ADR/RID/ADN, IMDG



**Class
Label**

9 Miscellaneous dangerous substances and articles.
9

IATA



**Class
Label**

9 Miscellaneous dangerous substances and articles.
9

14.4 Packing group

ADR/RID/ADN, IMDG, IATA

III

14.5 Environmental hazards:

Product contains environmentally hazardous substances: S-metolachlor

Special marking (IATA):

Symbol (fish and tree)

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

UN "Model Regulation":

UN 3082 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

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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*H318 Causes serious eye damage.**H335 May cause respiratory irritation.**H336 May cause drowsiness or dizziness.**H400 Very toxic to aquatic life.**H410 Very toxic to aquatic life with long lasting effects.**H411 Toxic to aquatic life with long lasting effects.**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**Flam. Liq. 3: Flammable liquids – Category 3**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**Skin Sens. 1: Skin sensitisation – Category 1**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**Asp. Tox. 1: Aspiration hazard – Category 1**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1**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*