

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : S-Metolachlor 960 EC

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

##### 1.2.1. Relevant identified uses

No additional information available

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

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[globachem@globachem.com](mailto:globachem@globachem.com) - [www.globachem.com](http://www.globachem.com)

#### 1.4. Emergency telephone number

No additional information available

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319  
Skin sensitisation, category 1A H317  
Hazardous to the aquatic environment — H400  
Acute Hazard, Category 1  
Hazardous to the aquatic environment — H410  
Chronic Hazard, Category 1  
Full text of H statements : see section 16

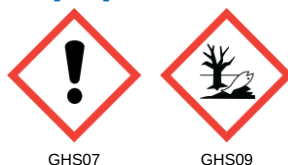
#### Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) : Warning

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P102 - Keep out of reach of children.  
P270 - Do not eat, drink or smoke when using this product.  
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 soap and 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, medical attention.  
P391 - Collect spillage.  
P501 - Dispose of contents/container to an approved waste disposal plant

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

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### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name           | Product identifier                                                        | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP]        |
|----------------|---------------------------------------------------------------------------|---------------|------------------------------------------------------------------------|
| S-metolachlor  | (CAS-No.) 87392-12-9<br>(EC Index-No.) 607-432-00-4                       | 86.7          | Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| Solvent naphta | (CAS-No.) 64742-94-5<br>(EC-No.) 265-198-5<br>(EC Index-No.) 649-424-00-3 | 1 – 5         | Asp. Tox. 1, H304                                                      |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after skin contact : May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

#### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Take up liquid spill into absorbent material.

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Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid

Appearance : Liquid.

Colour : clear. Yellow.

Odour : No data available

Odour threshold : No data available

pH : 4 – 8 1% w/v

Relative evaporation rate (butylacetate=1) : No data available

Melting point : Not applicable

Freezing point : No data available

Boiling point : No data available

Flash point : 81 °C 101.6 kPa Pensky-Martens c.c

Auto-ignition temperature : 425 °C

Decomposition temperature : No data available

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|                                                 |                                                    |
|-------------------------------------------------|----------------------------------------------------|
| Flammability (solid, gas)                       | : Not applicable                                   |
| Vapour pressure                                 | : No data available                                |
| Relative vapour density at 20 °C                | : No data available                                |
| Relative density                                | : No data available                                |
| Density                                         | : $\approx 1.11 \text{ g/cm}^3$                    |
| Solubility                                      | : No data available                                |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                                |
| Viscosity, kinematic                            | : No data available                                |
| Viscosity, dynamic                              | : 128 mPa·s at 20°C                                |
| Explosive properties                            | : Product is not explosive.                        |
| Oxidising properties                            | : Non oxidizing material according to EC criteria. |
| Explosive limits                                | : No data available                                |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| S-Metolachlor 960 EC       |                                |
|----------------------------|--------------------------------|
| LD50 oral rat              | 3937 mg/kg                     |
| LD50 dermal rabbit         | > 2020 mg/kg slightly irritant |
| LC50 inhalation rat (mg/l) | > 5.09 mg/l/4h                 |

|                                   |                                                      |
|-----------------------------------|------------------------------------------------------|
| Skin corrosion/irritation         | : Not classified<br>pH: 4 – 8 1% w/v                 |
| Serious eye damage/irritation     | : Causes serious eye irritation.<br>pH: 4 – 8 1% w/v |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction.               |
| Germ cell mutagenicity            | : Not classified                                     |
| Carcinogenicity                   | : Not classified                                     |
| Reproductive toxicity             | : Not classified                                     |
| STOT-single exposure              | : Not classified                                     |
| STOT-repeated exposure            | : Not classified                                     |
| Aspiration hazard                 | : Not classified                                     |

| S-Metolachlor 960 EC |                                         |
|----------------------|-----------------------------------------|
| Viscosity, kinematic | $\approx 115.315 \text{ mm}^2/\text{s}$ |

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### SECTION 12: Ecological information

#### 12.1. Toxicity

|                                                           |                                                         |
|-----------------------------------------------------------|---------------------------------------------------------|
| Ecology - general                                         | : Very toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute)  | : Very toxic to aquatic life.                           |
| Hazardous to the aquatic environment, long-term (chronic) | : Very toxic to aquatic life with long lasting effects. |

| S-Metolachlor 960 EC |                                           |
|----------------------|-------------------------------------------|
| LC50 fish 1          | 8.8 mg/l Oncorhynchus mykiss              |
| EC50 Daphnia 1       | 28 mg/l Daphnia magna                     |
| EC50 96h algae (1)   | 0.09 mg/l Pseudokirchneriella subcapitata |

#### 12.2. Persistence and degradability

| S-Metolachlor 960 EC          |                            |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |

#### 12.3. Bioaccumulative potential

| S-Metolachlor 960 EC      |                                                                     |
|---------------------------|---------------------------------------------------------------------|
| Bioaccumulative potential | Not expected to bioaccumulate due to the low log Kow (log Kow < 4). |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 3082 |
| UN-No. (IMDG) | : 3082 |
| UN-No. (IATA) | : 3082 |
| UN-No. (ADN)  | : 3082 |
| UN-No. (RID)  | : 3082 |

#### 14.2. UN proper shipping name

|                                       |                                                                                                         |
|---------------------------------------|---------------------------------------------------------------------------------------------------------|
| Proper Shipping Name (ADR)            | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-Metolachlor)                                   |
| Proper Shipping Name (IMDG)           | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-Metolachlor)                                   |
| Proper Shipping Name (IATA)           | : Environmentally hazardous substance, liquid, n.o.s. (S-Metolachlor)                                   |
| Proper Shipping Name (ADN)            | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-Metolachlor)                                   |
| Proper Shipping Name (RID)            | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-Metolachlor)                                   |
| Transport document description (ADR)  | : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-Metolachlor), 9, III, (-)              |
| Transport document description (IMDG) | : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-Metolachlor), 9, III, MARINE POLLUTANT |
| Transport document description (IATA) | : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (S-Metolachlor), 9, III                   |
| Transport document description (ADN)  | : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-Metolachlor), 9, III                   |
| Transport document description (RID)  | : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-Metolachlor), 9, III                   |

#### 14.3. Transport hazard class(es)

##### ADR

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 9 |
| Danger labels (ADR)              | : 9 |

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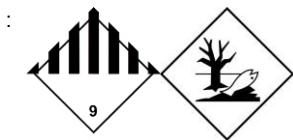
**IMDG**

Transport hazard class(es) (IMDG) : 9  
Danger labels (IMDG) : 9



**IATA**

Transport hazard class(es) (IATA) : 9  
Danger labels (IATA) : 9



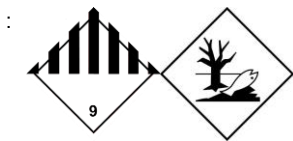
**ADN**

Transport hazard class(es) (ADN) : 9  
Danger labels (ADN) : 9



**RID**

Transport hazard class(es) (RID) : 9  
Danger labels (RID) : 9



**14.4. Packing group**

Packing group (ADR) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III  
Packing group (ADN) : III  
Packing group (RID) : III

**14.5. Environmental hazards**

Dangerous for the environment : Yes  
Marine pollutant : Yes  
Other information : No supplementary information available

**14.6. Special precautions for user**

- Overland transport

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|                                                                         |                           |
|-------------------------------------------------------------------------|---------------------------|
| Classification code (ADR)                                               | : M6                      |
| Special provisions (ADR)                                                | : 274, 335, 375, 601      |
| Limited quantities (ADR)                                                | : 5I                      |
| Excepted quantities (ADR)                                               | : E1                      |
| Packing instructions (ADR)                                              | : P001, IBC03, LP01, R001 |
| Special packing provisions (ADR)                                        | : PP1                     |
| Mixed packing provisions (ADR)                                          | : MP19                    |
| Portable tank and bulk container instructions (ADR)                     | : T4                      |
| Portable tank and bulk container special provisions (ADR)               | : TP1, TP29               |
| Tank code (ADR)                                                         | : LGBV                    |
| Vehicle for tank carriage                                               | : AT                      |
| Transport category (ADR)                                                | : 3                       |
| Special provisions for carriage - Packages (ADR)                        | : V12                     |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13                    |
| Hazard identification number (Kemler No.)                               | : 90                      |
| Orange plates                                                           | :                         |



|                               |     |
|-------------------------------|-----|
| Tunnel restriction code (ADR) | : - |
|-------------------------------|-----|

### - Transport by sea

|                                   |                 |
|-----------------------------------|-----------------|
| Special provisions (IMDG)         | : 274, 335, 969 |
| Limited quantities (IMDG)         | : 5 L           |
| Excepted quantities (IMDG)        | : E1            |
| Packing instructions (IMDG)       | : LP01, P001    |
| Special packing provisions (IMDG) | : PP1           |
| IBC packing instructions (IMDG)   | : IBC03         |
| Tank instructions (IMDG)          | : T4            |
| Tank special provisions (IMDG)    | : TP2, TP29     |
| EmS-No. (Fire)                    | : F-A           |
| EmS-No. (Spillage)                | : S-F           |
| Stowage category (IMDG)           | : A             |

### - Air transport

|                                              |                   |
|----------------------------------------------|-------------------|
| PCA Excepted quantities (IATA)               | : E1              |
| PCA Limited quantities (IATA)                | : Y964            |
| PCA limited quantity max net quantity (IATA) | : 30kgG           |
| PCA packing instructions (IATA)              | : 964             |
| PCA max net quantity (IATA)                  | : 450L            |
| CAO packing instructions (IATA)              | : 964             |
| CAO max net quantity (IATA)                  | : 450L            |
| Special provisions (IATA)                    | : A97, A158, A197 |
| ERG code (IATA)                              | : 9L              |

### - Inland waterway transport

|                                   |                      |
|-----------------------------------|----------------------|
| Classification code (ADN)         | : M6                 |
| Special provisions (ADN)          | : 274, 335, 375, 601 |
| Limited quantities (ADN)          | : 5 L                |
| Excepted quantities (ADN)         | : E1                 |
| Carriage permitted (ADN)          | : T                  |
| Equipment required (ADN)          | : PP                 |
| Number of blue cones/lights (ADN) | : 0                  |

### - Rail transport

|                           |      |
|---------------------------|------|
| Classification code (RID) | : M6 |
|---------------------------|------|

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|                                                                         |                           |
|-------------------------------------------------------------------------|---------------------------|
| Special provisions (RID)                                                | : 274, 335, 375, 601      |
| Excepted quantities (RID)                                               | : E1                      |
| Packing instructions (RID)                                              | : P001, IBC03, LP01, R001 |
| Special packing provisions (RID)                                        | : PP1                     |
| Mixed packing provisions (RID)                                          | : MP19                    |
| Portable tank and bulk container instructions (RID)                     | : T4                      |
| Portable tank and bulk container special provisions (RID)               | : TP1, TP29               |
| Tank codes for RID tanks (RID)                                          | : LGBV                    |
| Transport category (RID)                                                | : 3                       |
| Special provisions for carriage – Packages (RID)                        | : W12                     |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW31              |
| Colis express (express parcels) (RID)                                   | : CE8                     |
| Hazard identification number (RID)                                      | : 90                      |

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

|                   |      |
|-------------------|------|
| Eye Irrit. 2      | H319 |
| Skin Sens. 1A     | H317 |
| Aquatic Acute 1   | H400 |
| Aquatic Chronic 1 | H410 |

Full text of H- and EUH-statements:

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Aquatic Acute 1   | Hazardous to the aquatic environment — Acute Hazard, Category 1                           |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1                         |
| Asp. Tox. 1       | Aspiration hazard, Category 1                                                             |
| Eye Irrit. 2      | Serious eye damage/eye irritation, Category 2                                             |
| Skin Sens. 1      | Skin sensitisation, Category 1                                                            |
| Skin Sens. 1A     | Skin sensitisation, category 1A                                                           |
| H304              | May be fatal if swallowed and enters airways.                                             |
| H317              | May cause an allergic skin reaction.                                                      |
| H319              | Causes serious eye irritation.                                                            |
| H400              | Very toxic to aquatic life.                                                               |
| H410              | Very toxic to aquatic life with long lasting effects.                                     |
| EUH401            | To avoid risks to human health and the environment, comply with the instructions for use. |

SDS EU (REACH Annex II) (2017/11/09)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*