

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

### 1.1. Product identifier

**Name of product**

Desalgin Jet / Desalgine Jet  
410170

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

**Recommended intended purpose(s)**

Algicide for treatment of pool water.

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

**Manufacturer/distributor**

BAYROL Deutschland GmbH  
Robert-Koch-Str. 4, D-82152 Planegg  
Phone +49 (0) 89 85701-0

**Advice**

E-mail (competent person):  
SDS@bayrol.eu

### 1.4. Emergency telephone number

NCEC, Phone (+44)(0)1865407333

## ! SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**! Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

| Hazard classes and Hazard categories | Hazard Statements | Classification procedure |
|--------------------------------------|-------------------|--------------------------|
|--------------------------------------|-------------------|--------------------------|

**Aquatic Acute 1**

**Aquatic Chronic 2**

**Hazard Statements**

H410 Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

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



GHS09

**! Signal word**

Warning

**Hazard Statements**

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.  |
| P273 | Avoid release to the environment.                                     |

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|             |   |
|-------------|---|
| P280        | Wear protective gloves/eye protection.                              |
| P308 + P311 | IF exposed or concerned: Call a POISON CENTER/doctor.               |
| P501        | Dispose of contents/ container to an approved waste disposal plant. |

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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**SECTION 3: Composition/ information on ingredients****3.1. Substances**

not applicable

**3.2. Mixtures****Hazardous ingredients**

| CAS No     | EC No | Name  | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]             |
|------------|-------|---|------------|--|
| 25988-97-0 |       | Polymer of N-Methylmethanamine with (chloro methyl)oxirane            | 22,5       | Acute Tox. 4, H302 / Aquatic Acute 1, H400 M=10 / Aquatic Chronic1, H410 M=1 / |
| 26062-79-3 | ---   | 2-propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer | < 10       | Aqu. chron. 3, H412  |

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**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.

Symptoms of poisoning may not occur for hours, therefore medical supervision for at least 48 hours necessary.

Adhere to personal protective measures when giving first aid.

**In case of inhalation**

Remove the casualty into fresh air and keep him immobile.

In the event of symptoms refer for medical treatment.

**In case of skin contact**

In case of contact with skin wash off immediately with plenty of water.

Consult a doctor if skin irritation persists.

**In case of eye contact**

Eye rinsing with water carefully while protecting unhurt eye.

Refer to medical treatment.

**In case of ingestion**

Do not induce vomiting.

Medical treatment.

Rinse out mouth and give plenty of water to drink.

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

No information available.

**4.3. Indication of any immediate medical attention and special treatment needed****Treatment (Advice to doctor)**

Treat symptoms.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

water

Product does not burn, fire-extinguishing activities according to surrounding.

Foam

Dry fire-extinguishing substance

Carbon dioxide

sand

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

In case of fire formation of dangerous gases possible.

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Wear full protective clothing.

#### Additional information

Cool endangered containers with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Use personal protective clothing.

High risk of slipping due to leakage/spillage of product.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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

Take up with absorbent material.

Flush away residues with water.

### 6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

Emergency telephone number: see section 1

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures necessary if used correctly.

#### General protective measures

Avoid contact with eyes and skin

#### Hygiene measures

Do not eat or drink when working.

Keep away from food and drink.

Wash hands before breaks and after work.

**Advice on protection against fire and explosion**

The product is not combustible.

No special measures necessary.

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

**Requirements for storage rooms and vessels**

Keep only in original container.

**Advice on storage compatibility**

Do not store together with animal feedstuffs.

Do not store together with food.

**Further information on storage conditions**

Protect from heat and direct solar radiation.

**Information on storage stability**

Storage time: 5 years.

**Storage group** 12

**7.3. Specific end use(s)**

**Recommendation(s) for intended use**

See section 1.2

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## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

No information available.

**8.2. Exposure controls**

**Respiratory protection**

Breathing apparatus in the event of aerosol or mist formation.

**Hand protection**

chemical-resistant gloves

Suitable materials (recommended: protection index 6, >480 minutes permeation time according to EN 374)

Nitrile-butadiene rubber (NBR) - 0.4 mm layer thickness

Butyl rubber (butyl) - 0.7mm layer thickness

In view of the many different types, the manufacturers' directions for use must be followed

**Eye protection**

tightly fitting goggles

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## SECTION 9: Physical and chemical properties

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

**Appearance**

liquid

**Colour**

blue

**Odour**

characteristic

**Odour threshold**

not determined

**Important health, safety and environmental information**

|  | Value                  | Temperature | at     | Method         | Remark                      |
|--|------------------------|-------------|--------|----------------|-----------------------------|
| <b>pH value</b>  | ca. 7                  | 20 °C       | 10 g/l | potentiometric |                             |
| <b>Boiling temperature / boiling range</b>               | not determined         |             |        |                |                             |
| <b>Melting point / Freezing point</b>                    | not determined         |             |        |                |                             |
| <b>Flash point</b>                                       |                        |             |        |                | No flash point below 100°C. |
| <b>Vapourisation rate</b>                                | not determined         |             |        |                |                             |
| <b>Flammable (solid)</b>                                 | not determined         |             |        |                |                             |
| <b>Flammability (gas)</b>                                | not determined         |             |        |                |                             |
| <b>Ignition temperature</b>                              | not determined         |             |        |                |                             |
| <b>Self ignition temperature</b>                         | not determined         |             |        |                |                             |
| <b>Lower explosion limit</b>                             | not determined         |             |        |                |                             |
| <b>Upper explosion limit</b>                             | not determined         |             |        |                |                             |
| <b>Vapour pressure</b>                                   | 3095 Pa                | 25 °C       |        | calculated     |                             |
| <b>Relative density</b>                                  | 1,07 g/cm <sup>3</sup> | 20 °C       |        | aerometric     |                             |
| <b>Vapour density</b>                                    | not determined         |             |        |                |                             |
| <b>Solubility in water</b>                               |                        |             |        |                | multimiscible               |
| <b>Solubility/other</b>                                  | not determined         |             |        |                |                             |
| <b>Partition coefficient n-octanol/water (log P O/W)</b> | not determined         |             |        |                |                             |
| <b>Decomposition temperature</b>                         | not determined         |             |        |                |                             |
| <b>Viscosity</b>   | not determined         |             |        |                |                             |

**Oxidising properties**

No information available.

**Explosive properties**

No information available.

**9.2. Other information**

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

No information available.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

#### Substances to avoid

Reactions with strong oxidising agents.

### 10.6. Hazardous decomposition products

#### Thermal decomposition

Remark No decomposition if used as directed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritation/Sensitization

|                          | Value/Validation | Species | Method   | Remark                                  |
|--------------------------|------------------|---------|----------|---|
| <b>LD50 acute oral</b>   | > 2000 mg/kg     | rat     | OECD 401 | Information concerns to main component. |
| <b>LD50 acute dermal</b> | > 2000 mg/kg     | rat     | OECD 402 |   |

#### Subacute Toxicity - Carcinogenicity

|                              | Value             | Species | Method | Validation |
|------------------------------|-------------------|---------|--------|------------|
| <b>Mutagenicity</b>          | No data available |         |        |            |
| <b>Reproduction-Toxicity</b> | No data available |         |        |            |
| <b>Carcinogenicity</b>       | No data available |         |        |            |

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological effects

|             | Value                  | Species             | Method   | Validation |
|-------------|------------------------|---------------------|----------|------------|
| <b>Fish</b> | LC50 0,077 mg/l (96 h) | Oncorhynchus mykiss | OECD 203 |            |

|                | Value                 | Species       | Method   | Validation |
|----------------|-----------------------|---------------|----------|------------|
| <b>Daphnia</b> | EC50 0,08 mg/l (48 h) | Daphnia magna | OECD 202 |            |
| <b>Algae</b>   | EC50 0,13 mg/l (72 h) | green algae   | OECD 201 |            |

## 12.2. Persistence and degradability

|                                       | Elimination rate  | Method of analysis | Method     | Validation    |
|---------------------------------------|---|--------------------|------------|---------------|
| <b>Physico-chemical degradability</b> | The product can be largely eliminated from the water by abiotic processes, e.g. adsorption to activated sludge. |                    |            |               |
| <b>Biological degradability</b>       | 81 % (28 d)   |                    | OECD 301 B | Biodegradable |

## 12.3. Bioaccumulative potential

No information available.

## 12.4. Mobility in soil

No information available.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Other adverse effects

### Behaviour in sewage plant

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

### General regulation

Product is not allowed to be discharged into the ground water or aquatic environment.

Marine pollutant (according to IMDG-code)

The ecological figures refer to undiluted 100% pure substance.

The information to ecology refers to main component.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste code No.

16 05 09

#### Name of waste

discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

### Recommendations for the product

Remove in accordance with local official regulations.

Dispose of as hazardous waste.

### Recommendations for packaging

Uncontaminated packaging may be taken for recycling.

### Recommended cleansing agent

Water

## SECTION 14: Transport information

|  | ADR/RID   | IMDG   | IATA-DGR   |
|--|---|--|--|
| 14.1. UN number  | 3082  | 3082   | 3082   |
| 14.2. UN proper shipping name  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N. O.S. (Polymer of N-Methylmethanamine with (chloro methyl)oxirane) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polymer of N-Methylmethanamine with (chloro methyl)oxirane) | Environmentally hazardous substance, liquid, n.o.s. (Polymer of N-Methylmethanamine with (chloro methyl)oxirane) |
| 14.3. Transport hazard class(es)   | 9   | 9  | 9  |
| 14.4. Packing group  | III   | III  | III  |
| 14.5. Environmental hazards  | Yes   | Yes  | Yes  |
| 14.6. Special precautions for user   | No information available.   |  |  |
| 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | No information available.   |  |  |
| Land and inland navigation transport ADR/RID                                   |   |  |  |
| Hazard label(s) 9  |   |  |  |
| tunnel restriction code -  |   |  |  |
| Classification code M6   |   |  |  |
| Marine transport IMDG  |   |  |  |
| MARINE POLLUTANT   |   |  |  |

## SECTION 15: Regulatory information

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

#### Authorizations

#### Other regulations (EU)

Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in the workplace.

Regulation (EU) 528/2012 (BPR)

#### National regulations

##### Restriction of occupation

Observe employment restrictions for young people.

Observe employment restrictions for mothers-to-be and nursing mothers.

##### Other regulations, restrictions and prohibition regulations

ZH 1/81 "Data Sheet for hazardous chemical substances"

ZH 1/124 "Plant instructions for working with hazardous substances (A 010)"

ZH 1/132 "Data Sheet: Skin protection (M 042)"

ZH 1/175 "Data Sheet for First Aid due to influence of hazardous chemical substances"

ZH 1/192 "Data Sheet for eye protection"

ZH 1/129 "Data Sheet: Irritating substances / corrosive substances (M 004)"



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**Water hazard class** 3

#### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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## SECTION 16: Other information

#### Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

#### Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 8.6

#### Sources of key data used

Results of own researches and examinations

Literature informations

Toxicity studies, NIOSH-Tox-Data

National legislation and regulation

H302 Harmful if swallowed.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.