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<ul> <li>Product identifier</li> </ul>	
<ul> <li>Trade name: <u>Alachl</u></li> <li>Synonym 2-chloro-N</li> </ul>	<u>or</u> I-(2,6-diethylphenyl)-N-(methoxymethyl)-acetamide
	<b>ubstance / the mixture</b> search use - Not for human or veterinary diagnostic or therapeutic use.
<ul> <li>Details of the suppl</li> <li>Manufacturer/Supp</li> <li>Cayman Chemical C</li> <li>1180 E. Ellsworth Ro</li> <li>Ann Arbor, MI 48108</li> <li>USA</li> </ul>	0. I.
· Emergency telepho	ng times: +1 (734) 971-3335 24-9300
2 Hazard(s) identi	fication
	fication e substance or mixture
	e substance or mixture
• Classification of the	e substance or mixture
• Classification of the	e substance or mixture alth hazard H351 Suspected of causing cancer.
Classification of the GHS08 He Carcinogenicity 2	e substance or mixture alth hazard H351 Suspected of causing cancer.
Classification of the GHS08 He Carcinogenicity 2 GHS09 En Aquatic Acute 1	e substance or mixture alth hazard H351 Suspected of causing cancer. vironment H400 Very toxic to aquatic life.

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<ul> <li>Sensitization - Skin 1 H317 May cause an allergic skin reaction.</li> <li>Label elements</li> <li>GHS label elements</li> <li>The substance is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Harard pictograms</li> <li>Image of the grams</li> <li>Image of the grams<!--</th--><th></th><th>(Contd. from page 1)</th></li></ul>		(Contd. from page 1)
1 Abbel elements         CMS label elements         The substance is classified and labeled according to the Globally Harmonized System (GHS).         Harard pictograms         Image: Control of	Acute Toxicity - Oral 4 H302 Harmful if swallowed.	
GHS label elements         The substance is classified and labeled according to the Globally Harmonized System (GHS).         Hazard pictograms         Image: Control of the substance is classified and labeled according to the Globally Harmonized System (GHS).         Image: Control of the substance is classified and labeled according to the Globally Harmonized System (GHS).         Image: Control of the substance is classified and labeled according to the Globally Harmonized System (GHS).         Image: Control of the substance is classified and labeled according to the Globally Harmonized System (GHS).         Image: Control of the substance is classified and labeled according to the Globally Harmonized System (GHS).         Image: Control of the substance is classified according to the Globally Harmonized System (GHS).         Image: Control of the substance is classified according to the substance is classified to classified to the substance is classified according to the substancording to the substance is classince is cla	Sensitization - Skin 1 H317 May cause an allergic skin reaction.	
<ul> <li>Signal word Warning</li> <li>Hazard statements</li> <li>H327 Marmful if swallowed.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H351 Suspected of causing cancer.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P261 Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P262 Do not handle until all safety precautions have been read and understood.</li> <li>P261 Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P263 Do not eat, drink or smcke when using this product.</li> <li>P272 Contaminated work clothing must not be allowed out of the workplace.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.</li> <li>P302+P352 If on skin: Wash with plenty of water.</li> <li>P303+P313 IF exposed or concerned: Get medical advice/attention.</li> <li>P314 Spacific treatment (see on this label).</li> <li>P33+P313 IF exposed or concerned: Get medical advice/attention.</li> <li>P33 Scoleck spliage.</li> <li>P31 Collect spliage.</li> <li>P31 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Pispectro P Reactivity = 0</li> <li>Health = 2         Fire 0         Reactivity = 0         Fire 1         Reactivity = 0         Fire 1         Reactivity = 0         Fire 1         Reactivity = 0         Outer hazards         Reactivity = 0         Outer hazards         Reactivity = 0         Cuter neards         Reactivity = 0         Part not splicable.</li> </ul>	• GHS label elements The substance is classified and labeled according to the Globally Harmonized System	า (GHS).
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<ul> <li>P264 Wash thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P272 Contaminated work clothing must not be allowed out of the workplace.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.</li> <li>P302+P352 If on skin: Wash with plenty of water.</li> <li>P308+P313 IF exposed or concerned: Get medical advice/attention.</li> <li>P313 Specific treatment (see on this label).</li> <li>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P363 Wash contaminated clothing before reuse.</li> <li>P391 Collect spillage.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>Mils-ratings (scale 0 - 4)</li> <li>Mils-ratings (scale 0 - 4)</li> <li>Mealth = 2</li> <li>Fire = 0</li> <li>Reactivity = 0</li> <li>Health = 2</li> <li>Fire = 0</li> <li>Reactivity = 0</li> <li>Other hazards</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> </ul>	<ul> <li>Hazard statements</li> <li>H302 Harmful if swallowed.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H351 Suspected of causing cancer.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>Precautionary statements</li> <li>P201 Obtain special instructions before use.</li> </ul>	1.
<ul> <li>NFPA ratings (scale 0 - 4)</li> <li>Health = 2 Fire = 0 Reactivity = 0</li> <li>HMIS-ratings (scale 0 - 4)</li> <li>HEALTH 2 FIRE 0 REACTIVITY 0 Reactivity = 0</li> <li>Other hazards</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable. (Contd. on page 3)</li> </ul>	<ul> <li>P261 Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P264 Wash thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P272 Contaminated work clothing must not be allowed out of the workplace.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.</li> <li>P330 Rinse mouth.</li> <li>P302+P352 If on skin: Wash with plenty of water.</li> <li>P308+P313 IF exposed or concerned: Get medical advice/attention.</li> <li>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P363 Wash contaminated clothing before reuse.</li> <li>P391 Collect spillage.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/natiregulations.</li> </ul>	
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HEALTH       2         FIRE       0         FIRE       0         REACTIVITY       0         Reactivity = 0         Other hazards         Results of PBT and vPvB assessment         • PBT: Not applicable.         (Contd. on page 3)	Health = 2 Fire = 0	
HEALTH       2         FIRE       0         FIRE       0         REACTIVITY       0         Reactivity = 0         • Other hazards         • Results of PBT and vPvB assessment         • PBT: Not applicable.         (Contd. on page 3)	· HMIS-ratings (scale 0 - 4)	
<ul> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>(Contd. on page 3)</li> </ul>	HEALTH2FIRE0Fire0	
· PBT: Not applicable. (Contd. on page 3)		
(Contd. on page 3)		
	• <b>PBT:</b> Not applicable.	(Contd. on page 3)

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· vPvB: Not applicable.

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#### **3 Composition/information on ingredients**

- · Chemical characterization: Substances
- CAS No. Description 15972-60-8 Alachlor
- · Identification number(s)
- **EC number:** 240-110-8
- · Index number: 616-015-00-6

#### 4 First-aid measures

- · Description of first aid measures
- General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Immediately call a doctor.
- · Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

# **5 Fire-fighting measures**

- · Extinguishing media
- Suitable extinguishing agents:
- Use fire fighting measures that suit the environment.
- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

# 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Dispose contaminated material as waste according to section 13.
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- PAC-2: Substance is not listed.
- **PAC-3:** Substance is not listed.

### 7 Handling and storage

· Handling:

- · Precautions for safe handling
- No special precautions are necessary if used correctly.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid prolonged or repeated exposure.

Keep away from sources of ignition.

Take precautionary measures against static discharge.re.

- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities Keep container tightly closed.
- Store in accordance with information listed on the product insert.
- Storage: Store in accordance with information listed on the product insert.
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

- · Control parameters
- Components with limit values that require monitoring at the workplace:
- 15972-60-8 Alachlor
- TLV Long-term value: 1\* mg/m<sup>3</sup>
  - DSEN, \*inhalable fraction and vapor, A3
- · Additional information: The lists that were valid during the creation were used as basis.
- · 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.
   Breathing equipment: Not required.
- Protection of hands:



Protective gloves

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

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(Contd. from page 4) 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.

#### 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: Not required.

9 Physical and chemical properti	es
<ul> <li>Information on basic physical and che</li> <li>General Information</li> </ul>	emical properties
<ul> <li>Appearance:</li> <li>Form:</li> <li>Color:</li> <li>Odor:</li> </ul>	Solid Not determined. Characteristic
<ul> <li>Structural Formula</li> <li>Molecular Weight</li> <li>Odor threshold:</li> </ul>	C14H20CINO2 269.8 g/mol Not determined.
· pH-value:	Not applicable.
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	40–41 °C (104–105.8 °F) 100 °C (212 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
· Ignition temperature:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure at 25 °C (77 °F):	0.003 hPa (0 mm Hg)
<ul> <li>Density at 20 °C (68 °F):</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	1.133 g/cm³ (9.45489 lbs/gal) Not determined. Not applicable. Not applicable.
<ul> <li>Solubility in / Miscibility with</li> <li>Water at 20 °C (68 °F):</li> </ul>	0.15 g/l
· Partition coefficient (n-octanol/water)	Not determined.
· Viscosity: Dynamic:	Not applicable.
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Kinematic: SOLUBILITY Not applicable. DMF: 30 mg/ml; DMSO: 30 mg/ml

No further relevant information available.

· Other information

# **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · **Incompatible materials:** strong oxidizing agents
- · Hazardous decomposition products: carbon oxides, hydrogen chloride, nitrogen oxides

# **11 Toxicological information**

- · RTECS Number AE1225000
- · Information on toxicological effects
- · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

#### Oral LD50 462 mg/kg (mouse) 930 mg/kg (rat) Intraperitoneal TDLO 499 mg/kg (rat)

#### · Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

# **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 3 (Assessment by list): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms • Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- vPvB: Not applicable.

· Other adverse effects No further relevant information available.

### **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

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

· Uncleaned packagings:

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

UN-Number	
DOT, IMDG, IATA	UN3077
UN proper shipping name	
DOT, IATA	Environmentally hazardous substance, solid, n.o (Alachlor)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANC SOLID, N.O.S. (Alachlor)
Transport hazard class(es)	
DOT	
Class Label	9 Miscellaneous dangerous substances and articles 9
IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)

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· Special marking (IATA):	Symbol (fish and tree)
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
<ul> <li>Hazard identification number (Kemler code)</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Stowage Code</li> </ul>	: 90 F-A,S-F A SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 400 kg On cargo aircraft only: 400 kg
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· IATA · Remarks:	When sold in quantities of less than or equal to 1 mL or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ALACHLOR), 9, III

### 15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) A3
- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.

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#### · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -

 Date of preparation / last revision 09/15/2023 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Acute Toxicity - Oral 4: Acute toxicity – Category 4 Sensitization - Skin 1: Skin sensitisation – Category 1 Carcinogenicity 2: Carcinogenicity – Category 2 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 \* Data compared to the previous version altered.