



SAFETY DATA SHEET

According to JIS Z 7253:2019 Issue Date 08-Apr-2025 Revision Number 1.01

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Alachlor Reference Material [CRM]		
Product Code	018-28621		
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan		

Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

Emergency telephone number +81-6-6203-3741 / +81-3-3270-8571

Recommended uses For research use only

Reference material (as defined in Japanese Industrial Standards (JIS) Q0030)

Restrictions on use

Reference material (as defined in Japanese Industrial Standards (JIS) Q0030)

Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Acute toxicity - OralCategory 4Skin sensitizationCategory 1CarcinogenicityCategory 2

Specific target organ toxicity (single exposure) Category 2, Category 3

Category 2 nervous system
Category 3 Respiratory irritation

Specific target organ toxicity (repeated exposure)

Category 2

Category 2 nasal cavity, liver

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

Pictograms



Hazard statements

H302 - Harmful if swallowed

H351 - Suspected of causing cancer

H335 - May cause respiratory irritation

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H371 - May cause damage to the following organs: nervous system

H373 - May cause damage to the following organs through prolonged or repeated exposure: nasal cavity, liver

Precautionary statements-(Prevention)

- Obtain special instructions before use
- · Do not handle until all safety precautions have been read and understood

- · Use personal protective equipment as required
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- · Contaminated work clothing should not be allowed out of the workplace
- · Wear protective gloves
- Do not breathe dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- · Avoid release to the environment

Precautionary statements-(Response)

- IF exposed or concerned: Get medical advice/attention
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation or rash occurs: Get medical advice/attention
- · Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- · Rinse mouth
- · Collect spillage

Precautionary statements-(Storage)

- Store locked up
- Store in a well-ventilated place. Keep container tightly closed

Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula C14H20CINO2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
2-Chloro-N-(2,6-diethylp	98.0	269.77	N/A	4-(10)-162	15972-60-8
henyl)-N-(methoxymethy					
l)acetamide					

Note on ISHL No.: * in the table means announced chemical substances.

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special extinguishing method

No information available

Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions

Storage conditions Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Packed

with an inert gas.

Safe packaging material

Glass

Incompatible substances

Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
2-Chloro-N-(2,6-diethylphenyl)-	N/A	N/A	TWA: 1 mg/m ³ inhalable

N-(methoxymethyl)acetamide		fraction and vapor
15972-60-8		

Personal protective equipment

Dust mask (JIS T 8151) Respiratory protection

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Long-sleeved work clothes Skin and body protection

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

white Color

Appearance crystalline powder - powder

Pungent odor Odor 40 - 45 °C Melting point/freezing point Boiling point, initial boiling point and boiling range no data available **Flammability** no data available **Evaporation rate:** no data available Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

no data available Upper: no data available Lower: Flash point no data available **Auto-ignition temperature:** no data available **Decomposition temperature:** no data available рΗ no data available Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available

Solubilities ethanol, acetone: soluble. water: very slightly soluble.

n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available Specific Gravity / Relative density no data available no data available Vapour density Particle characteristics no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available Chemical stability May be altered by light.

Hazardous reactions

The substance decomposes on burning producing toxic or corrosive gases and fumes.

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Halides

Section 11: TOXICOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput **Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Chloro-N-(2,6-diethylphenyl)-	930 mg/kg (Rat)	13300 mg/kg (Rabbit)	> 1.04 mg/L (Rat) 4 h
N-(methoxymethyl)acetamide			

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
2-Chloro-N-(2,6-diethylphenyl)-N-(m	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
ethoxymethyl)acetamide	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
2-Chloro-N-(2,6-diethylphenyl)-N-(m			Based on the NITE GHS
ethoxymethyl)acetamide	classification results.	classification results.	classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)acetamide	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information	
2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)acetamide	Based on the NITE GHS classification results.	

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information	
2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)acetamide	Based on the NITE GHS classification results.	

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)acetamide	Based on the NITE GHS classification results.
	

Carcinogenicity

Chemical Name	Carcinogenicity source information
2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)acetamide	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH
2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)	N/A	N/A	A3	N/A
acetamide				
15972-60-8				

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)acetamide	Based on the NITE GHS classification results.
STOT-single exposure	

Chemical Name	STOT -single exposure- source information
2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)acetamide	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)acetamide	Based on the NITE GHS classification results.
Asniration hazard	

-	To pil atter i liazara			
ſ	Chemical Name	Aspiration Hazard source information		
ſ	2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)acetamide	Based on the NITE GHS classification results.		

Section 12: ECOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Chloro-N-(2,6-diethylphenyl)-	ErC50 : Pseudokirchneriella	LC50: =5.0mg/L (96h,	EC50: 6 - 9.9mg/L (48h,
N-(methoxymethyl)acetamide	subcapitata	Pimephales promelas)	Daphnia magna)
	0.0047 mg/L 96 h	LC50: 2.5 - 3.2mg/L (96h,	

Lepomis macrochirus)
LC50: >100mg/L (96h,
Oncorhynchus mykiss)

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the		
	aquatic environment source information	aquatic environment source information		
2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)ac	Based on the NITE GHS classification	Based on the NITE GHS classification		
etamide	results.	results.		

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID

UN number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

(2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)acetamide)

UN classfication

Subsidiary hazard class

Packing group III
Marine pollutant Yes

IMDG

UN number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

(2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)acetamide)

UN classfication 9

Subsidiary hazard class

Packing group III
Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

(2-Chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)acetamide)

UN classfication

Subsidiary hazard class

Packing group III
Environmentally Hazardous Yes

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable

Poisonous and Deleterious

Not applicable

Substances Control Law

Industrial Safety and Health Act Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2)

Regulations for the carriage and storage of dangerous

Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Transport by Ship and Storage, Attached Table 1)

goods in ship
Civil Aeronautics Law
Misellaneous Dangerous

Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification

for Air Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Class 1

Register Law (2023.4.1-)

l.1-)

Class 1 - No. 101

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
2-Chloro-N-(2,6-diethylphenyl)-N-(metho xymethyl)acetamide 15972-60-8 (98.0)	-	Applicable	Applicable

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

Record of SDS revisions Disclaimer

The following contents were revised. Regulatory information.

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet