

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 04/02/2025

Revision date 04/02/2025

Page 1/8

1 Identification

- · Product identifier
- · Trade name: GW 9662
- · Synonym 2-chloro-5-nitrobenzanilide
- CAS Number: 22978-25-2
- · Other means of identification
- Article number: 70785
 Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Cayman Chemical Co.
 1180 E. Ellsworth Rd.
 Ann Arbor, MI 48108
 USA
- · Information department: Product safety department
- Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

· Classification of the substance or mixture



Eye irritation 2AH319 Causes serious eye irritation.Sensitization - skin 1H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements
- The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Warning

(Contd. on page 2)

Date of issue: 04/02/2025

Revision date 04/02/2025

Trade name: GW 9662

	(Contd. from page 1)			
 Hazard statement 	its			
H319 Causes seri	ious eye irritation.			
H317 May cause	an allergic skin reaction.			
· Precautionary st	atements			
P261	Avoid breathing dust/fume/gas/mist/vapors/spray			
P264	Wash thoroughly after handling.			
P272	Contaminated work clothing must 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.			
	B If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if			
F 303 F 33 F F 330	present and easy to do. Continue rinsing.			
P362+P364				
	Take off contaminated clothing and wash it before reuse.			
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.			
P321	Specific treatment (see on this label).			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P501	Dispose of contents/container in accordance with local/regional/national/international			
	regulations.			
 Information pertain 	aining to particular dangers for man and environment:			
· Classification sy	stem:			
NFPA ratings (so				
Heal	lth = 2			
Fire				
	ctivity = 0			
	Suviy – S			
· HMIS-ratings (sc	ale 0 - 4)			
HEALTH 2 Health = 2				
FIRE 0 Fire = 0				
REACTIVITY 0 Rea	activity = 0			
· Other hazards				
· Other nazaros · Results of PBT and vPvB assessment				
• PBT: Not applicat				
· vPvB: Not applica	able.			
· Classification ac	cording to (d)(1)(ii) of § 1910.1200			
The SDS issuer does not object to the classifications provided by importers or manufacturers of				
precursor product				
· Hazards not othe				
	erse physical or health effects known that are not covered by the hazard classes of the			
Hazard Communi				
3 Composition/	information on ingredients			
s composition/	mormation on ingredients			
· Chemical charac	terization: Substances			
· CAS No. Description				
22978-25-2 GW 9662				
22910-20-2 GW 9				
4 First-aid measures				
Description of first aid measures				

Description of first aid measures
 After inhalation:

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

(Contd. on page 3)

US

Date of issue: 04/02/2025

Revision date 04/02/2025

Trade name: GW 9662

(Contd. from page 2)

- 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. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult 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: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- Protective Action Criteria for Chemicals
- **PAC-1:** Substance is not listed.
- · PAC-2: Substance is not listed.
- PAC-3: Substance is not listed.
- · 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.

7 Handling and storage

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
- 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: Keep receptacle tightly sealed.

(Contd. on page 4)

US

Date of issue: 04/02/2025

Revision date 04/02/2025

(Contd. from page 3)

Trade name: GW 9662

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · 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.
 Avoid contact with the eyes.
 Avoid contact with the eyes and skin.
- 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. 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:



Tightly sealed goggles

9 Physical and chemical properties

- Information on basic physical and chemical properties
- · General Information
- · Physical state
- · Color:
- · Odor:
- Structural Formula
- Molecular Weight
- · Storage Buffer
- · Odor threshold:

Solid Not determined. Characteristic C13H9CIN2O3 276.7 g/mol

Not determined.

(Contd. on page 5)

US

Date of issue: 04/02/2025

Trade name: GW 9662

Revision date 04/02/2025

	(Contd. from page 4		
· Formulation			
 Melting point/Melting range: 	Undetermined.		
 Boiling point/Boiling range: 	Undetermined.		
Flammability:	Product is not flammable.		
Explosion limits:			
Lower:	Not determined.		
· Upper:	Not determined.		
Flash point:	Not applicable.		
Decomposition temperature:	Not determined.		
pH-value:	Not applicable.		
· Viscosity:			
· Kinematic:	Not applicable.		
·SOLUBILITY	DMF: 35 mg/ml; DMF:PBS (7.2 pH) (1:2): 0.5 mg/ml		
	DMSO: 33 mg/ml; Ethanol: 2 mg/ml		
· Dynamic:	Not applicable.		
Solubility in / Miscibility with			
Water:	Not determined.		
 Partition coefficient (n-octanol/water): 	Not determined.		
Vapor pressure:	Not applicable.		
· Vapor pressure:			
· Density:	Not determined.		
· Relative density	Not determined.		
Vapor density	Not applicable.		
 Particle characteristics 	Not determined.		
• Other information			
· Appearance:			
· Form:	Solid		
· Important information on protection of he	alth		
and environment, and on safety.			
Ignition temperature:	Not determined.		
Danger of explosion:	Product does not present an explosion hazard.		
Change in condition	• •		
· Evaporation rate	Not applicable.		

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 CV2465500

(Contd. on page 6)

US

Date of issue: 04/02/2025

Revision date 04/02/2025

Trade name: GW 9662

(Contd. from page 5)

- Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

Subcutaneous TDLO 237.1 µg/kg (mouse)

- Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · 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.
- Alternative sources for toxicological information No non-standard sources for toxicological information where used.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

14 Transport information

- · UN-Number
- · DOT, IMDG, IATA

not regulated

(Contd. on page 7)

US

Date of issue: 04/02/2025

Revision date 04/02/2025

Trade name: GW 9662

		(Contd. from page 6
 UN proper shipping name DOT, IMDG, IATA 	not regulated	
· Transport hazard class(es)		
[·] DOT, ADN, IMDG, IATA [·] Class	not regulated	
· Packing group · DOT, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
Transport in bulk according to Anne MARPOL73/78 and the IBC Code	x II of Not applicable.	
· Special precautions for user	Not applicable.	
· UN "Model Regulation":	not regulated	

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 not listed.
- · TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- Chemicals known to cause cancer: Substance is not 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) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · 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 previous version 07/13/2023
- · Date of preparation 04/02/2025

(Contd. on page 8)

[–] US

Date of issue: 04/02/2025

Revision date 04/02/2025

(Contd. from page 7)

US

Trade name: GW 9662

· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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 Eye irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - skin 1: Skin sensitisation - Category 1 ** Data compared to the previous version altered.