



SAFETY DATA SHEET

THE DOW CHEMICAL COMPANY

Product name: DOW™ IC-210 Gas Conditioning Chelant

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THE DOW CHEMICAL COMPANY encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. IDENTIFICATION

Product name: DOW™ IC-210 Gas Conditioning Chelant

Recommended use of the chemical and restrictions on use

Identified uses: Gas treatment agent.

COMPANY IDENTIFICATION

THE DOW CHEMICAL COMPANY
2211 H.H. DOW WAY
MIDLAND MI 48674
UNITED STATES

Customer Information Number:

800-258-2436
SDSQuestion@dow.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: CHEMTREC +1 800-424-9300

Local Emergency Contact: 800-424-9300

2. HAZARDS IDENTIFICATION

Hazard classification

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion - Category 1

Serious eye damage - Category 1

Label elements

Hazard pictograms



Signal word: **DANGER!**

Hazards

H314 Causes severe skin burns and eye damage.

Precautionary statements**Prevention**

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P363 Wash contaminated clothing before reuse.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CASRN	Concentration
Water	7732-18-5	>= 50.0 - <= 60.0 %
Aminocarboxylate sodium salt (1)	Trade secret	>= 35.0 - <= 50.0 %
Aminocarboxylate sodium salt (2)	Trade secret	>= 1.0 - <= 3.0 %
Aminocarboxylate sodium salt (3)	Trade secret	>= 1.0 - <= 3.0 %
Sodium hydroxyacetate	2836-32-0	>= 1.0 - <= 3.0 %
Sodium hydroxide	1310-73-2	>= 0.5 - <= 1.5 %

4. FIRST AID MEASURES

Description of first aid measures

General advice:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air and keep comfortable for breathing; consult a physician.

Skin contact: Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation or rash occurs. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

Eye contact: Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

Ingestion: Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.

Most important symptoms and effects, both acute and delayed:

Causes serious eye damage. Causes severe burns. Corrosive to the respiratory tract.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns and/or ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal or esophageal control if lavage is done. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam..

Unsuitable extinguishing media: No data available

Special hazards arising from the substance or mixture

Hazardous combustion products: Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds.. Combustion products may include and are not limited to:.. Nitrogen oxides.. Carbon monoxide.. Carbon dioxide..

Unusual Fire and Explosion Hazards: This material will not burn until the water has evaporated. Residue can burn..

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry.. To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam..

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).. If protective equipment is not available or not used, fight fire from a protected location or safe distance..

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Keep upwind of spill. Ventilate area of leak or spill. Only trained and properly protected personnel must be involved in clean-up operations. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Contain spilled material if possible. Small spills: Absorb with materials such as: Dirt. Sand. Collect in suitable and properly labeled containers. Large spills: Pump into suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes. Avoid contact with skin and clothing. Wash thoroughly after handling. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage: Store in accordance with good manufacturing practices. Do not store in: Zinc. Aluminum. Carbon steel. Copper. Copper alloys.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value
Sodium hydroxide	ACGIH	C	2 mg/m3
	OSHA Z-1	TWA	2 mg/m3

Exposure controls

Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection: Use chemical goggles.

Skin protection

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Neoprene. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In misty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators: Particulate filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	Liquid.
Color	Colorless to yellow
Odor	Slightly ammoniacal
Odor Threshold	No test data available
pH	11.0 1% ASTM E70
Melting point/ range	Not applicable
Freezing point	-34 °C (-29 °F) <i>Literature</i>
Boiling point (760 mmHg)	107 °C (225 °F) <i>Literature</i>
Flash point	closed cup Not applicable
Evaporation Rate (Butyl Acetate = 1)	No test data available
Flammability (solid, gas)	Not applicable to liquids
Flammability (liquids)	Not expected to be a static-accumulating flammable liquid.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor Pressure	Same as water
Relative Vapor Density (air = 1)	Same as water
Relative Density (water = 1)	1.26 - 1.31 at 25 °C (77 °F) / 25 °C <i>Literature</i>

Water solubility	<i>Literature</i> completely miscible
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	Not applicable
Decomposition temperature	No test data available
Kinematic Viscosity	27.2 cSt at 20 °C (68 °F) <i>Literature</i>
Explosive properties	No data available
Oxidizing properties	No data available
Molecular weight	No data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Thermally stable at typical use temperatures.

Possibility of hazardous reactions: Polymerization will not occur.

Conditions to avoid: Active ingredient decomposes at elevated temperatures.

Incompatible materials: May be corrosive to metals. Avoid contact with: Oxidizers. Flammable hydrogen may be generated from contact with metals such as: Aluminum.

Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials..

11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data are available.

Information on likely routes of exposure

Ingestion, Inhalation, Skin contact, Eye contact.

Acute toxicity (represents short term exposures with immediate effects - no chronic/delayed effects known unless otherwise noted)

Acute Toxicity Endpoints:

Not classified based on available information.

Acute oral toxicity

Information for the Product:

Low toxicity if swallowed. Swallowing may result in gastrointestinal irritation or ulceration.

Based on information for a similar material:

LD50, Rat, 4,000 - 8,000 mg/kg

Information for components:**Aminocarboxylate sodium salt (1)**

Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

Based on information for a similar material: LD50, Rat, 1,612 mg/kg

Aminocarboxylate sodium salt (2)

Single dose oral LD50 has not been determined.

Aminocarboxylate sodium salt (3)

LD50, Rat, 1,300 mg/kg

Sodium hydroxyacetate

LD50, Cat, 500 mg/kg

Sodium hydroxide

Oral LD50 has not been determined due to corrosivity.

Acute dermal toxicity**Information for the Product:**

Prolonged skin contact is unlikely to result in absorption of harmful amounts.
The dermal LD50 has not been determined.

Information for components:**Aminocarboxylate sodium salt (1)**

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

The dermal LD50 has not been determined.

Aminocarboxylate sodium salt (2)

The dermal LD50 has not been determined.

Aminocarboxylate sodium salt (3)

LD50, Rabbit, 10,000 mg/kg

Sodium hydroxyacetate

The dermal LD50 has not been determined.

Sodium hydroxide

The dermal LD50 has not been determined.

Acute inhalation toxicity**Information for the Product:**

Vapors are primarily water; single exposure is not likely to be hazardous. Mist may cause irritation of upper respiratory tract (nose and throat).

As product: The LC50 has not been determined.

Information for components:**Aminocarboxylate sodium salt (1)**

No adverse effects are anticipated from single exposure to dust.

Maximum attainable concentration. LC0, Rat, 4 Hour, dust/mist, > 3.95 mg/l

Aminocarboxylate sodium salt (2)

Dust and process fumes may be harmful if inhaled and may cause irritation of skin, eyes, and respiratory tract.

The LC50 has not been determined.

Aminocarboxylate sodium salt (3)

Dust may cause irritation to upper respiratory tract (nose and throat).

LD50, Rat, male, 4 Hour, dust/mist, > 5.0 mg/l No deaths occurred at this concentration.

Sodium hydroxyacetate

As product: The LC50 has not been determined.

Sodium hydroxide

The LC50 has not been determined.

Skin corrosion/irritation

Causes severe burns.

Information for the Product:

For similar material(s):

Prolonged contact may cause moderate skin irritation with local redness.

Repeated contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

May cause more severe response if skin is abraded (scratched or cut).

Information for components:**Aminocarboxylate sodium salt (1)**

Prolonged contact may cause skin irritation with local redness.

Repeated contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

May cause more severe response if skin is abraded (scratched or cut).

May cause more severe response on covered skin (under clothing, gloves).

Aminocarboxylate sodium salt (2)

Brief contact may cause skin burns. Symptoms may include pain, severe local redness and tissue damage.

Aminocarboxylate sodium salt (3)

Prolonged contact may cause slight skin irritation with local redness.
May cause more severe response if skin is abraded (scratched or cut).

Sodium hydroxyacetate

Brief contact is essentially nonirritating to skin.

Sodium hydroxide

Brief contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Information for the Product:

Based on information for component(s):

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Information for components:**Aminocarboxylate sodium salt (1)**

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Aminocarboxylate sodium salt (2)

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Aminocarboxylate sodium salt (3)

May cause pain disproportionate to the level of irritation to eye tissues.

Solid.

May cause slight eye irritation.

May cause slight corneal injury.

Dust may irritate eyes.

For solutions:

May cause severe eye irritation.

May cause corneal injury.

Sodium hydroxyacetate

May cause slight eye irritation.

Corneal injury is unlikely.

Sodium hydroxide

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Dust may irritate eyes.

Sensitization**For skin sensitization:**

Not classified based on available information.

For respiratory sensitization:

Not classified based on available information.

Information for the Product:

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

Information for components:

Aminocarboxylate sodium salt (1)

For similar material(s):

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

Aminocarboxylate sodium salt (2)

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

Aminocarboxylate sodium salt (3)

For respiratory sensitization:

Relevant data not available.

Did not cause allergic skin reactions when tested in humans.

Sodium hydroxyacetate

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

Sodium hydroxide

Did not cause allergic skin reactions when tested in humans.

For respiratory sensitization:

No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

Corrosive to the respiratory tract.

Information for the Product:

Product test data not available.

Information for components:

Aminocarboxylate sodium salt (1)

Available data are inadequate to determine single exposure specific target organ toxicity.

Aminocarboxylate sodium salt (2)

Material is corrosive. Material is not classified as a respiratory irritant; however, upper respiratory tract irritation or corrosivity may be expected.

Aminocarboxylate sodium salt (3)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Sodium hydroxyacetate

Available data are inadequate to determine single exposure specific target organ toxicity.

Sodium hydroxide

Material is corrosive. Material is not classified as a respiratory irritant; however, upper respiratory tract irritation or corrosivity may be expected.

Aspiration Hazard

Not classified based on available information.

Information for the Product:

Based on physical properties, not likely to be an aspiration hazard.

Information for components:

Aminocarboxylate sodium salt (1)

Based on physical properties, not likely to be an aspiration hazard.

Aminocarboxylate sodium salt (2)

Based on available information, aspiration hazard could not be determined.

Aminocarboxylate sodium salt (3)

Based on available information, aspiration hazard could not be determined.

Sodium hydroxyacetate

Based on physical properties, not likely to be an aspiration hazard.

Sodium hydroxide

Aspiration into the respiratory system may occur during ingestion or vomiting. Due to corrosivity, tissue damage or lung injury may occur.

Chronic toxicity (represents longer term exposures with repeated dose resulting in chronic/delayed effects - no immediate effects known unless otherwise noted)

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Not classified based on available information.

Information for the Product:

Product test data not available.

Information for components:**Aminocarboxylate sodium salt (1)**

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Aminocarboxylate sodium salt (2)

No relevant data found.

Aminocarboxylate sodium salt (3)

In animals, effects have been reported on the following organs:

Urinary tract.

Repeated excessive exposures may alter concentrations of metals in the body.

Sodium hydroxyacetate

In animals, effects have been reported on the following organs:

Kidney.

In animals, has been shown to cause deposition of calcium salts in various urinary tract tissues.

Sodium hydroxide

Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Carcinogenicity

Not classified based on available information.

Information for the Product:

Product test data not available.

Information for components:**Aminocarboxylate sodium salt (1)**

For similar material(s): Did not cause cancer in laboratory animals.

Aminocarboxylate sodium salt (2)

No relevant data found.

Aminocarboxylate sodium salt (3)

Large dietary doses have caused urinary tract tumors in laboratory animals. There is no evidence that these findings are relevant to humans.

Sodium hydroxyacetate

No relevant data found.

Sodium hydroxide

No relevant data found.

Carcinogenicity**Component****List****Classification**

Aminocarboxylate sodium salt (3) IARC

Group 2B: Possibly carcinogenic to humans

Teratogenicity

Not classified based on available information.

Information for the Product:

Product test data not available.

Information for components:

Aminocarboxylate sodium salt (1)

EDTA and its sodium salts have been reported to cause birth defects in laboratory animals only at exaggerated doses that were toxic to the mother. These effects are likely associated with zinc deficiency due to chelation.

Aminocarboxylate sodium salt (2)

No relevant data found.

Aminocarboxylate sodium salt (3)

Did not cause birth defects or any other fetal effects in laboratory animals.

Sodium hydroxyacetate

No relevant data found.

Sodium hydroxide

No relevant data found.

Reproductive toxicity

Not classified based on available information.

Information for the Product:

Product test data not available.

Information for components:

Aminocarboxylate sodium salt (1)

For similar material(s): Limited data in laboratory animals suggest that the material does not affect reproduction.

Aminocarboxylate sodium salt (2)

No relevant data found.

Aminocarboxylate sodium salt (3)

In animal studies, did not interfere with reproduction.

Sodium hydroxyacetate

No relevant data found.

Sodium hydroxide

No relevant data found.

Mutagenicity

Not classified based on available information.

Information for the Product:

Product test data not available.

Information for components:**Aminocarboxylate sodium salt (1)**

In vitro genetic toxicity studies were negative.

Aminocarboxylate sodium salt (2)

No relevant data found.

Aminocarboxylate sodium salt (3)

In vitro genetic toxicity studies were negative in some cases and positive in other cases.
Animal genetic toxicity studies were predominantly negative.

Sodium hydroxyacetate

No relevant data found.

Sodium hydroxide

In vitro genetic toxicity studies were negative.

12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data are available.

Toxicity**Information for the Product:**

Product test data not available.

Information for components:**Aminocarboxylate sodium salt (1)****Acute toxicity to fish**

Material is practically non-toxic to aquatic organisms on an acute basis
(LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).
LC50, Fathead minnow (*Pimephales promelas*), Static, 96 Hour, 372 mg/l

Acute toxicity to aquatic invertebrates

LC50, *Daphnia magna*, Static, 48 Hour, 192 mg/l

Acute toxicity to algae/aquatic plants

Based on information for a similar material:

ErC50, *Desmodesmus subspicatus* (green algae), Static, 72 Hour, Growth rate inhibition, > 100 mg/l

Chronic toxicity to fish

NOEC, *Danio rerio* (zebra fish), flow-through, 35 d, > 25.7 mg/l

Chronic toxicity to aquatic invertebrates

NOEC, *Daphnia magna*, semi-static test, 21 d, 25 mg/l

Aminocarboxylate sodium salt (2)**Acute toxicity to fish**

No relevant data found.

Aminocarboxylate sodium salt (3)**Acute toxicity to fish**

Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).

LC50, *Pimephales promelas* (fathead minnow), flow-through test, 96 Hour, 103 mg/l, Method Not Specified.

Acute toxicity to aquatic invertebrates

LC50, scud *Gammarus* sp., flow-through test, 96 Hour, 80 mg/l

Acute toxicity to algae/aquatic plants

ErC50, *Desmodesmus subspicatus* (green algae), static test, 72 Hour, Growth rate inhibition, > 91.5 mg/l, OECD Test Guideline 201 or Equivalent

Toxicity to bacteria

EC50, *Pseudomonas fluorescens*, Cell multiplication inhibition test, 8 Hour, 3,200 - 5,600 mg/l

Chronic toxicity to fish

NOEC, *Pimephales promelas* (fathead minnow), flow-through test, 229 d, mortality, 54 mg/l

Chronic toxicity to aquatic invertebrates

NOEC, scud *Gammarus* sp., flow-through test, 141 d, mortality, 9.3 mg/l

Sodium hydroxyacetate**Acute toxicity to fish**

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

For similar material(s):

EC50, *Danio rerio* (zebra fish), 96 Hour, > 100 mg/l, OECD Test Guideline 203

Acute toxicity to aquatic invertebrates

Based on data from similar materials

EC50, *Daphnia magna* (Water flea), 48 Hour, > 100 mg/l, OECD Test Guideline 202

Acute toxicity to algae/aquatic plants

Based on data from similar materials

ErC50, *Skeletonema costatum* (marine diatom), 72 Hour, > 100 mg/l

Based on data from similar materials

NOEC, *Skeletonema costatum* (marine diatom), 72 Hour, > 1 mg/l

Toxicity to bacteria

Based on data from similar materials

EC50, Pseudomonas putida, 16 Hour, > 1,000 mg/l, DIN 38 412 Part 8

Sodium hydroxide**Acute toxicity to fish**

May increase pH of aquatic systems to > pH 10 which may be toxic to aquatic organisms.

Persistence and degradability**Information for the Product:**

Product test data not available.

Information for components:**Aminocarboxylate sodium salt (1)**

Biodegradability: Based on information for a similar material: Material has inherent, primary biodegradability according to OECD test (s) guidelines (reaches > 20% biodegradation in OECD test(s)).

Aminocarboxylate sodium salt (2)

Biodegradability: No relevant data found.

Aminocarboxylate sodium salt (3)**Biodegradability:**

Material has inherent, ultimate biodegradability according to OECD test (s) guidelines (reaches > 60 or 70% biodegradation in OECD test(s)).

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

10-day Window: Pass

Biodegradation: 100 %

Exposure time: 14 d

Method: OECD Test Guideline 301E or Equivalent

10-day Window: Not applicable

Biodegradation: 96 %

Exposure time: 28 d

Method: OECD Test Guideline 302B or Equivalent

Biological oxygen demand (BOD)

Incubation Time	BOD
5 d	59 %
20 d	91 %

Photodegradation

Sensitization: OH radicals

Atmospheric half-life: 0.144 d

Method: Estimated.

Sodium hydroxyacetate

Biodegradability: For similar material(s): Material is expected to be readily biodegradable.

Theoretical Oxygen Demand: 0.49 mg/mg

Photodegradation

Test Type: Half-life (indirect photolysis)

Sensitization: OH radicals

Atmospheric half-life: 9.3 d

Method: Estimated.

Sodium hydroxide

Biodegradability: Biodegradability is not applicable to inorganic substances.

Bioaccumulative potential

Information for the Product:

Product test data not available.

Information for components:

Aminocarboxylate sodium salt (1)

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): -11.36 Estimated.

Bioconcentration factor (BCF): 3 Fish Estimated.

Aminocarboxylate sodium salt (2)

Bioaccumulation: No relevant data found.

Aminocarboxylate sodium salt (3)

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): -13.2 Estimated.

Bioconcentration factor (BCF): 3.00 Fish Estimated.

Sodium hydroxyacetate

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): -5.19 Estimated.

Bioconcentration factor (BCF): 3.2 Fish Estimated.

Sodium hydroxide

Bioaccumulation: No bioconcentration is expected because of the relatively high water solubility.

Mobility in soil

Information for the Product:

Product test data not available.

Information for components:

Aminocarboxylate sodium salt (1)

No relevant data found.

Aminocarboxylate sodium salt (2)

No relevant data found.

Aminocarboxylate sodium salt (3)

Partition coefficient (Koc): 44.06

Sodium hydroxyacetate

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Partition coefficient (Koc): 1 Estimated.

Sodium hydroxide

Partition coefficient (Koc): 14 Estimated.

13. DISPOSAL CONSIDERATIONS

Disposal methods: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION 1: Identified Uses. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

14. TRANSPORT INFORMATION

DOT

Proper shipping name	Corrosive liquid, basic, organic, n.o.s.(SODIUM SALT OF AMINOPOLYCARBOXYLIC ACID, Sodium hydroxide)
UN number	UN 3267
Class	8
Packing group	III

Classification for SEA transport (IMO-IMDG):

Proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(SODIUM SALT OF AMINOPOLYCARBOXYLIC ACID, Sodium hydroxide)
UN number	UN 3267
Class	8
Packing group	III
Marine pollutant	No
Special precautions for user	EmS: F-A, S-B
Transport in bulk	Consult IMO regulations before transporting ocean bulk

according to Annex I or II
of MARPOL 73/78 and the
IBC or IGC Code

Classification for AIR transport (IATA/ICAO):

Proper shipping name	Corrosive liquid, basic, organic, n.o.s.(SODIUM SALT OF AMINOPOLYCARBOXYLIC ACID, Sodium hydroxide)
UN number	UN 3267
Class	8
Packing group	III

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Skin corrosion or irritation

Serious eye damage or eye irritation

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Worker and Community Right-To-Know Act:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Prop. 65

This product contains a chemical that is at or below California Propositions 65's "safe harbor level" as determined via a risk assessment. Therefore, the chemical is not required to be listed as a Prop 65 chemical on the SDS or label.

United States TSCA Inventory (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

16. OTHER INFORMATION

Product Literature

Additional information on this product may be obtained by calling your sales or customer service contact. Ask for a product brochure. Additional information on this and other products may be obtained by visiting our web page.

Hazard Rating System

NFPA

Health	Flammability	Instability
2	0	0

Revision

Identification Number: 40435 / A001 / Issue Date: 09/19/2025 / Version: 9.0

In case this version of the SDS contains significant changes from the previous version, they are listed below or noted by bold, double bars in the left-hand margin throughout this document.

Changes encompass identification, hazards, tox/eco-tox information and the addition/removal of the ingredients, and regulatory information, hazard information, uses, risk management measures and other key regulatory changes of the product. Detailed explanation of the changes can be obtained upon request.

Legend

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
C	Ceiling limit
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
TWA	8-hour time weighted average

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for

Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

THE DOW CHEMICAL COMPANY urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

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