

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 04.04.2024

Revision Date: 04.04.2025

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DiaMate

SECTION 1: Identification

Product identifier

Product name: DiaMate



Other means of identification

Synonyms: Sodium bisulfate, Sodium Hydrogensulphate

Product code: DIAMUS

Additional information: None.

Recommended use of the chemical and restrictions on use

Recommended use: Carrier to aid in mechanical spreading / Aid in adherence to target surfaces.

Restrictions on use: Any other use than the recommended use.

Manufacturer or supplier details

Manufacturer:

United States

Jones-Hamilton Co.
570 Longbow Drive
Maumee, OH 43537
419-887-7099 / 8 1-(888)-858-4425 (24/7)
info@jones-hamilton.com
<http://www.jones-hamilton.com/>

Emergency telephone number:

North America

CHEMTREC
(800) 424-9300 (24 hours)

SECTION 2: Hazard(s) identification

Classification in accordance with paragraph (d) (1)(i) of §1910.1200, GHS Revision 7 and certain provision of GHS Revision 8:

Hazard Classification

Serious eye damage, category 1

Label elements

Pictogram(s):



Signal Word: Danger

Hazard statements:

H318 Causes serious eye damage

Precautionary statements:

P280 Wear protective gloves, protective clothing, eye protection, face protection

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTER or doctor

Hazards not otherwise classified: None

Supplemental label elements: None

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SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS Number: 7681-38-1	Sodium hydrogensulphate	92-100

Additional Information:

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4: First-aid measures

Description of first-aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance.

After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After eye contact:

Immediately rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. Seek immediate medical attention, preferably from an ophthalmologist.

After ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most important symptoms/effects, acute and delayed

Acute symptoms and effects:

Eye contact may result in irritation, redness, pain, inflammation, itching, burning, tearing.
Prolonged exposure to skin may cause irritation. Symptoms include redness, inflammation and itching.
Inhalation of dust or aerosol may have adverse effects on the respiratory tract. Symptoms may include cough, sore throat, burning sensation, shortness of breath.
Ingestion may result in abdominal pain, and burning sensation.

Delayed symptoms and effects:

Symptoms of exposure may be, but are unlikely to be, delayed. Effects are dependent on exposure (dose, concentration, contact time).

Indication of immediate medical attention and special treatment needed, if necessary

In case of eye contact, seek prompt medical attention while rinsing is continued.
Seek immediate medical advice/attention if ingested.

Notes for the doctor:

Treat symptomatically.

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SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

Specific hazards arising from the chemical:

Thermal decomposition may produce irritating and toxic fumes including sulfur dioxide and sulfur trioxide.

Special protective equipment and precautions for fire-fighters

Special protective equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ventilate area. Wear recommended personal protective equipment (see Section 8). Wear appropriate respirator if ventilation is inadequate. Minimize generation and dispersal of dust. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Do not walk through spilled material. Wash thoroughly after handling.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Vacuum or sweep up material and place in a designated, labeled container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Do not get in eyes. Avoid contact with skin and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep in the original container or an approved alternative made from a compatible material. Keep containers tightly closed when not in use.

Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location. Keep container tightly sealed. Store away from incompatible materials (See Section 10). Product is hygroscopic and will readily absorb moisture. Do not store where product can be exposed to moist conditions.

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SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Individual protection measures, such as personal protective equipment

Eye and face protection:

Use safety glasses with side shields or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. Personal protective equipment for the body should be selected based on the task being performed. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.
A NIOSH approved dust respirator should be used in dusty atmospheres ($>10 \text{ mg/m}^3$).

General hygiene measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Dry (Anhydrous) crystalline solid, spherical shape beads
Color	Off-white
Odor	Fresh to pungent
Melting point/freezing point	177°C (350.6°F)
Initial boiling point/range	Not determined or not available.
Flammability	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.

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Flash point	Not determined or not available.
Auto-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
pH	<1 [Conc. (% w/w): 5%]
Kinematic viscosity	Not determined or not available.
Solubility	Partially soluble in water
Partition coefficient — n-octanol/water	Not determined or not available.
Vapor pressure	Not determined or not available.
Density	Not determined or not available.
Relative density	1.28
Relative vapor density	Not determined or not available.
Particle characteristics	Not determined or not available.

Other Information

Molecular Weight	120
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SECTION 10: Stability and reactivity

Reactivity:

Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis. DO NOT MIX dry or concentrated solutions of this product with concentrated solutions of chlorine bleach, ammonia cleansers or similar products.

Chemical stability:

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions, including those associated with foreseeable emergencies:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to avoid:

Moisture and humidity; incompatible materials.

Incompatible materials:

Oxidizing agents; Acids; Alkalis. DO NOT MIX dry or concentrated solutions of chlorine bleach, ammonia cleansers or similar products.

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Sodium hydrogensulphate	oral	LD50 Rat: 2140 mg/kg

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

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Serious eye damage/irritation

Assessment:

Causes serious eye damage.

Product data: No data available.

Substance data:

Name	Result
Sodium hydrogensulphate	Causes serious eye damage.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

OSHA Carcinogens: Not applicable

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Interactive effects:

No data available.

Information on likely routes of exposure:

Skin contact, eye contact, ingestion and inhalation of dusts.

Symptoms related to the physical, chemical and toxicological characteristics:

See section 4 of this SDS.

Other information:

No data available.

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SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Sodium hydrogensulphate	Fish LC50 Pimephales promelas: 7960 mg/L (96 hr [read-across])
	Aquatic Invertebrates LC50 Daphnia magna: 1766 mg/L (48 hr [read-across])

Chronic (Long-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Sodium hydrogensulphate	Aquatic Invertebrates NOEC Ceriodaphnia dubia: 1109 mg/L (7 d [read-across])

Persistence and Degradability

Product data: No data available.

Substance data:

Name	Result
Sodium hydrogensulphate	This substance readily dissociates in water to inorganic ions that are not subject to biological degradation.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Sodium hydrogensulphate	The substance is not expected to bioaccumulate because of the resulting strong anionic nature of the substance (calculated BCF < 0.5).

Mobility in soil

Product data: No data available.

Substance data:

Name	Result
Sodium hydrogensulphate	The substance is not expected to adsorb to soil based on the physico-chemical properties of this substance.

Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment:

Sodium hydrogensulphate	PBT assessment does not apply to inorganic substances.
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vPvB assessment:

Sodium hydrogensulphate	vPvB assessment does not apply inorganic substances.
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Other adverse effects:

This product readily dissolves in water to form a weak acid solution. A 0.05 percent or greater (by weight) solution of this product will likely be acutely harmful to aquatic life.

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SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

International Maritime Dangerous Goods (IMDG) Code

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association (IATA) Dangerous Goods Regulations (DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in Bulk according to IMO Instruments

IMO hazard class	None
Environmental hazards	None
Material hazardous only in bulk	None
Cargo Group	None
Bulk Name	None

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SECTION 15: Regulatory information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals: None of the ingredients are listed.

CERCLA: None of the ingredients are listed.

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know: None of the ingredients are listed.

New Jersey Right to Know: None of the ingredients are listed.

New York Right to Know:

7681-38-1	Sodium hydrogensulphate	Listed
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Pennsylvania Right to Know: None of the ingredients are listed.

California Proposition 65: None of the ingredients are listed.

Additional information: Not determined.

SECTION 16: Other information

Disclaimer:

This product has been classified in accordance with paragraph (d) (1)(i) of 1910.1200, GHS Revision 7 and certain provision of GHS Revision 8. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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Revision Notes:

Revision Date	Notes
2025-02-17	Version 2; Supersedes Version 1 (04.04.2024)
2025-04-04	Version 3; Supersedes Version 2 (02.17.2025)

End of Safety Data Sheet