



Diversified Chemical Products, Inc.
60 Germay Drive
Wilmington, Del. 19804

Safety Data Sheet (SDS)
OSHA HazCom Standard 29 CFR 1910.1200.

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Alginate Remover

Product Number: DP2900

Contact:

DIVERSIFIED CHEMICAL PRODUCTS, INC.

60 GERMAY DRIVE

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SECTION 2 – HAZARD(S) IDENTIFICATION

Classification of the substance or mixture



Harmful if swallowed or inhaled.

Causes skin irritation.

Causes eye irritation.

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



Signal word: Warning

Hazard statements: Chronic Health Effects

Carcinogenic effects: not available

Mutagenic effect: not available

Teratogenic effects: not available

Developmental toxicity: not available

Repeated or prolonged exposure is not known to aggravate medical conditions.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

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

Take off contaminated clothing and wash before reuse.

IF SWALLOWED: Rinse mouth. Do not induce vomiting. Call a poison center/doctor if you feel unwell.

IF ON SKIN: Wash with plenty of water.

If skin irritation or rash occurs: Get medical advice/attention.

If any symptoms continue call a poison center /doctor.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:**NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health	1
Fire	0
Reactivity	0

Health = 1

Fire = 0

Reactivity = 0

SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS**Chemical characterization: Mixtures**

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous Components:

CAS No.	Description	GHS-US classification
CAS: 68-04-2	Sodium citrate	Skin Irrit. 2, H315; Eye Irrit. 2A, H319
CAS: 144-55-8	Sodium bicarbonate	Skin Irrit. 2, H315; Eye Irrit. 2A, H319
CAS: 532-32-1	Sodium benzoate	Eye Irrit. 2, H319

SECTION 4 - FIRST AID INFORMATION**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:

If having difficulty breathing, contact emergency personnel immediately

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

In case of unconsciousness, place patient securely on side position for transportation.

After skin contact:

Remove contaminated clothing. Wash clothing before reuse.

Immediately wash with water and soap and rinse thoroughly.

If irritation occurs consult a doctor.

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After eye contact:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.

Rinse opened eye for several minutes under running water. Seek medical treatment.

After swallowing:

Do not induce vomiting and call for medical help.

Never give anything by mouth to an unconscious person

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Information for doctor:

This product contains sodium carbonate at low concentrations. While no adverse complications are expected, consider endoscopy in all suspected cases of poisoning. Perform blood analysis to determine if dehydration, acidosis, or other electrolyte imbalances occurred.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5 - FIRE-FIGHTING INFORMATION

Extinguishing media

Suitable extinguishing agents:

Use dry chemical powder. Fight larger fires with water spray, fog or resistant foam. Avoid hose streams or water jets.

Special hazards arising from the substance or mixture

No further relevant information available.

Advice for firefighters

Protective equipment:

Full protective clothing and self-contained breathing apparatus should be worn.

Fine dust dispersed in air in sufficient concentration, and in the presence of an ignition source is a potential dust explosion hazard.

SECTION 6 - ACCIDENTAL RELEASE INFORMATION

Personal precautions, protective equipment and emergency procedures:

Refer to section 8

Environmental precautions:

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.

See Section 13 for disposal information.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin, eyes and clothing

Information about protection against explosions and fires:

No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Keep container tightly closed.
Store in a well ventilated place.
Store in a cool, dry place.

Information about storage in one common storage facility:

Keep away from incompatibles such as oxidizing agents.

Further information about storage conditions:

Use plastics or stainless steel for suitable packaging.

Precautions for safe handling:

Avoid contact with skin, eyes and clothing

Specific end use(s)

No further relevant information available.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical systems:

No further data; see section 7.

Control parameters

Components with occupational exposure limits:

Federal guidelines suggest to treat the ingredient in this product as a nuisance dust, as no product specific guidelines have been issued for exposure.

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.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

Breathing equipment: Not required.

Protection of hands:



Protective gloves



Protective goggles

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.

Select glove material based on penetration times, rates of diffusion and degradation.

Material of gloves

The selection of the suitable gloves depends on the material, and marks of quality, and varies from manufacturer to manufacturer.

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. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

(Continued of page 4)

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:

Have a safety shower and eyewash fountain readily available in the immediate work area

Tightly sealed goggles

Body protection: Protective work clothing

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Powder and granule	Color:	Greenish blue
Odor:	No significant odor	Odor threshold:	Not determined
pH-value @ 20° C (68° F):	8.5		

Change in condition:

Melting point/Melting range: <0°
Boiling point/Boiling range: NA

Flash point: Not applicable

Flammability (solid, gaseous): Not determined

Ignition temperature:

Decomposition temperature: Not determined.

Auto igniting: Product is not self igniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined	Upper:	Not determined
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Vapor pressure: Not applicable

Relative density: Not determined

Specific gravity (H₂O=1): 1.04

Vapor density: Not applicable

Evaporation rate: Not applicable

Solubility in / Miscibility with Water: >10%

Partition coefficient (n-octanol/water): Not determined

Viscosity:

Dynamic: Not applicable

Kinematic: Not applicable

Solvent content:

Organic solvents: 0.0%

Other information: No further relevant information available.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: No further relevant information available.

Chemical stability: Product is stable under normal conditions.

Thermal decomposition / conditions to be avoided:

Excessive heat, dust generation and incompatible materials.

Conditions to avoid:

Avoid strong oxidizing agents and other incompatible materials as stated above.

Incompatible materials:

Avoid oxidizing agents and strong acids. Avoid contact with iron salts.

Hazardous decomposition products:

Carbon dioxide and carbon monoxide.

SECTION 11 – TOXICOLOGICAL INFORMATION**Information on toxicological effects****Acute toxicity****LD/LC50 values that are relevant for classification****Sodium citrate (CAS: 68-04-2)**

LD50 oral rate Not available

LC50 Inhalation Not available

Sodium bicarbonate (CAS: 144-55-8)

LD50 oral rate 3360 mg/kg (mouse)

LC50 Inhalation Not available

Sodium benzoate (CAS: 532-32-1)

LD50 oral rate >2000 mg/kg (rat)

LC50 Inhalation >12.2 mg/L (rat)

Primary irritant effect:**On the skin:**

Irritant to skin on prolonged contact.

On the eye:

Irritant to eye.

Inhalation:

Dust inhalation may cause respiratory irritation.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

Carcinogenic categories**IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA (Occupational Safety & Health Administration)

None of the ingredients is listed.

SECTION 12 – ECOLOGICAL INFORMATION**Toxicity****Aquatic toxicity:**

Persistence and degradability

Long term degradation products may arise.

Bioaccumulative potential

No further relevant information available.

Mobility in soil

No further relevant information available.

Additional ecological information:**General notes:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

Other adverse effects: No further relevant information available.

SECTION 13 – DISPOSAL CONSIDERATIONS**Waste disposal methods**

Waste disposal recommendation Observe all federal, state and local environmental regulations when disposing of this material.
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Un-cleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

SECTION 14 – TRANSPORT INFORMATION

UN-Number

DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA

Class Non-Regulated Material

Packing group

DOT, ADR, IMDG, IATA Non-Regulated Material

Environmental hazards:

Marine pollutant: No

Special precautions for user Not applicable

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable

UN "Model Regulation":

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SECTION 15 – REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture*****US and State Regulations***

TSCA 8(b) inventory: Sodium bicarbonate

WHIMIS (Canada)

Ingredients are listed on Canadian Domestic Substance List (DSL)

China

Ingredients are listed on National Inventory

Japan

Ingredients are listed on National Inventory (ENCS)

Korea

Ingredients are listed on National Inventory (KECI)

Philippines

Ingredients are listed on National Inventory (PICCS)

Australia

Ingredients are listed on National Inventory (AICS)

Mexico

Ingredients are listed on National Inventory

California Proposition 65

Chemicals known to cause cancer: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.

Chemicals known to cause developmental toxicity: None of the ingredients is listed.

Carcinogenic categories

(Continued of page7)

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements

The product is classified and labeled according to the Global Harmonized System (GHS).

Hazard pictograms

Signal word: Warning

National Regulations

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

State Right to Know

CAS No.	Description	GHS-US classification
CAS: 68-04-2	Sodium citrate	Skin Irrit. 2, H315; Eye Irrit. 2A, H319
CAS: 144-55-8	Sodium bicarbonate	Skin Irrit. 2, H315; Eye Irrit. 2A, H319
CAS: 532-32-1	Sodium benzoate	Eye Irrit. 2, H319

All ingredients are listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16 – OTHER INFORMATION****Abbreviations and acronyms:**

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
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)
LD50:	Lethal dose, 50 percent
Skin Irrit. 2:	Skin corrosion/irritation
Eye Irrit. 2:	Serious eye damage/eye irritation
Eye Irrit. 2A:	Serious eye damage/eye irritation

Revision Summary Replaces Rev 5 issued on 05-June-2012. Complies with GHS OSHA requirements.

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