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1. Identification

Product identifier used on the label

Na-Methylate Crystals

Recommended use of the chemical and restriction on use

Recommended use*: industrial chemicals

Recommended use*: initial product for chemical syntheses; process chemical Unsuitable for use: Not intended for sale to or use by the general public.

Details of the supplier of the safety data sheet

Company:

BASF Mexicana S.A. de C.V. Av. Insurgentes Sur 975 Col. CD. De Los Deportes, C.P. 03710 Ciudad de México MÉXICO

Telephone: +52 55 5325 2600

Emergency telephone number

24 Hour Emergency Response Information

SETIQ: 1800-00-214-(Rep. Mexicana) or 55-59-15-88 (CDMX)

Telephone: +1-800-849-5204 or +1-833-229-1000

Other means of identification

Molecular formula: CH(3)ONa

Chemical family: alcohol, sodium salt Synonyms: Sodium Methoxide

2. Hazards Identification

According to Regulation NOM-018-STPS-2015

Classification of the product

^{*} The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

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Flam. Sol. 1 Flammable solids

Self-heat. 1 Self-heating substances and mixtures

Acute Tox. 4 (oral) Acute toxicity

Skin Corr./Irrit. 1A Skin corrosion/irritation

Eye Dam./Irrit. 1 Serious eye damage/eye irritation

Label elements

Pictogram:





Signal Word: Danger

Hazard Statement:

H228 Flammable solid.

H251 Self-heating: may catch fire. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary Statements (Prevention):

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

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

protection.

P260 Do not breathe dust.

P241 Use explosion-proof electrical, ventilating and lighting equipment.

P235 Keep cool.

P240 Ground and bond container and receiving equipment.
P270 Do not eat, drink or smoke when using this product.
P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

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 physician.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use ... to extinguish.

Precautionary Statements (Storage):

P405 Store locked up.

P407 Maintain air gap between stacks or pallets.

P420 Store separately.

P413 Store bulk masses greater than 1,000 kg/2,205 lbs at temperatures not

exceeding 25 °C/77 °F.

Precautionary Statements (Disposal):

P501 Dispose of contents/container in accordance with local regulations.

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Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. When finely distributed, self-ignition is possible.

According to Regulation (EC) No 1272/2008 [CLP]

Labeling of special preparations (GHS):

Reacts violently with water.

3. Composition / Information on Ingredients

According to Regulation NOM-018-STPS-2015

Methanol

CAS Number: 67-56-1

Content (W/W): >= 0.0 - < 3.0% Synonym: Methanol; Methyl alcohol

sodium methanolate

CAS Number: 124-41-4

Content (W/W): >= 75.0 - <= 100.0%

Synonym: Methanol, sodium salt; Sodium methanolate

sodium hydroxide

CAS Number: 1310-73-2 Content (W/W): >= 0.0 - < 3.0%

Synonym: Sodium hydroxide; Caustic soda

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

lf on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

If in eves:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Immediately rinse mouth and then drink 200 - 300 ml water, do not induce vomiting, seek medical attention. Administer 50 ml of pure ethanol in a drinkable concentration. Seek medical attention.

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Most important symptoms and effects, both acute and delayed

Symptoms: skin corrosion, Eye irritation, Further symptoms are possible Hazards: No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no

known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: dry powder, Dry sand, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons: water, carbon dioxide

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

Reacts violently with water. See SDS section 7 - Handling and storage.

sodium oxides, organic vapours, corrosive gases/vapours, carbon oxides Generation of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

sodium oxides, organic vapours, corrosive gases/vapours, carbon oxides Reacts violently with water. Generation of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Impact Sensitivity:

Remarks: Based on the chemical structure there is no shock-sensitivity.

6. Accidental release measures

Further accidental release measures:

Avoid wetting. Reacts violently with water.

Personal precautions, protective equipment and emergency procedures

Avoid contact with the skin, eyes and clothing. Use breathing apparatus if exposed to vapours/dust/aerosol. Use personal protective clothing.

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Environmental precautions

Do not allow to enter soil, waterways or waste water channels.

Methods and material for containment and cleaning up

For small amounts: Sweep/shovel up. Correctly dispose of recovered product immediately. For large amounts: Sweep/shovel up. Correctly dispose of recovered product immediately.

7. Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Breathing must be protected when large quantities are decanted without local exhaust ventilation. Protect against moisture. Protect from air. Protect from direct sunlight. Handle in protective atmosphere.

Protection against fire and explosion:

Take precautionary measures against static discharges. Sources of ignition should be kept well clear. Fire extinguishers should be kept handy. Avoid dust formation.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Low density polyethylene (LDPE), Stainless steel 1.4301 (V2), Stainless steel 1.4401, glass, High density polyethylene (HDPE), Carbon steel (Iron), Stainless steel 1.4541, Stainless steel 1.4571, Alkyd resin lacquer 441

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Keep under nitrogen.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

The mentioned substance is result of gradual decomposition under influence of atmospheric humidity.

Methanol OEL, MX: Skin Designation; The substance can be

absorbed through the skin.

OEL, MX: TWA value 200 ppm; OEL, MX: STEL value 250 ppm;

sodium hydroxide OEL, MX: CLV 2 mg/m3;

Advice on system design:

Provide local exhaust ventilation to control dust.

Personal protective equipment

Respiratory protection:

Wear appropriate certified respirator when exposure limits may be exceeded. Wear a NIOSH-certified (or equivalent) particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination.

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Hand protection:

Chemical resistant protective gloves should be worn to prevent all skin contact., Suitable materials may include, butyl rubber, fluoroelastomer (Viton), Consult with glove manufacturer for testing data., Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:

Tightly fitting safety goggles (chemical goggles) and face shield.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts. Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to prevent contact. Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation of dusts.

9. Physical and Chemical Properties

Form: powder, crystalline

Odour: odourless

Odour threshold: Not determined due to potential health hazard by inhalation.

Colour: colourless pH value: 12.8

(10 g/l, 20 °C) Literature data.

melting point > 350 °C The substance / product (Directive 92/69/EEC,

(decomposition): decomposes therefore not A.1)

determined.

Boiling point: > 350 °C (Directive 92/69/EEC,

(1,013.25 hPa) The substance / A.2)

product decomposes therefore not

determined.

Flash point: not applicable Study scientifically not

justified.

Flammability: Flammable solid. Highly flammable. (Directive

84/449/EEC, A.10)

Lower explosion limit: For solids not relevant for

classification and labelling. For solids not relevant for

classification and labelling.

Vapour pressure: < 0.000001 hPa (calculated)

(25 °C)

Density: 1.3 g/cm3

Upper explosion limit:

(20 °C)

Literature data. itv: No data available.

Relative density: No data available

No data available.

Bulk density: 500 - 600 kg/m3 (DIN 53466)

 $(< 40 \, ^{\circ}\text{C})$

Vapour density: The product is a non-volatile solid.

Partitioning coefficient n- -0.72 (calculated)

octanol/water (log Pow): (25 °C)

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Information on: Methanol

Partitioning coefficient n- -0.77 (measured)

octanol/water (log Pow): (20 °C)

Literature data.

Self-ignition

not self-igniting

temperature:

> 25 - < 50 °C (Directive

No self ignition was observed up to 92/69/EEC, A.16)

the specified temperature.

Thermal decomposition: > 280 °C (DTA)

Thermal decomposition above the indicated temperature is possible. The indicated value is for inert gas atmosphere.

> 50 °C (VDI 2263, sheet 1, 1.4.1 (May 1990)) Risk of spontaneous ignition when exposed to air.

Viscosity, dynamic: Study technically not feasible.

Study technically not feasible.

Viscosity, kinematic: Study technically not feasible.

Particle size: D10 3.6 μm (ISO 13320-1)

D90 135.7 μm (ISO 13320-1) D50 69.9 μm (ISO 13320-1)

fine particles

Solubility in water: Study scientifically not justified.

Solubility (qualitative): soluble

solvent(s): alcohols,

Molar mass: 54.02 g/mol

Evaporation rate: The product is a non-volatile solid.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrodes metals in the presence of water or moisture.

Oxidizing properties: not fire-propagating

Formation of Remarks: Forms no flammable gases in the

flammable gases: presence of water.

Method: Manual of tests and criteria. Test

N.5 (United Nations Recommendations on the Transport of Dangerous Goods).

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Exothermic reaction. Reacts with water and acids. Reacts with substances which contain active hydrogen. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air. Self heating possible in the presence of air.

Conditions to avoid

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Avoid all sources of ignition: heat, sparks, open flame. Avoid moisture. Avoid electro-static charge. Avoid heat.

Incompatible materials

water, acids

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: Methanol, sodium hydroxide

Thermal decomposition:

> 280 °C (DTA)

Thermal decomposition above the indicated temperature is possible. The indicated value is for inert gas atmosphere.

> 50 °C (VDI 2263, sheet 1, 1.4.1 (May 1990))

Risk of spontaneous ignition when exposed to air.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after single ingestion. The toxicity of the product is based on its corrosivity.

Information on: sodium methanolate

Assessment of acute toxicity:Of moderate toxicity after single ingestion. The toxicity of the product is based on its corrosivity.

Inhalation

Study does not need to be conducted.

Dermal

Type of value: LD50 Species: rat (male/female)

Value: > 2,000 mg/kg (BASF-Test) An aqueous solution was tested. No mortality was observed.

Irritation / corrosion

Assessment of irritating effects: Corrosive! Damages skin and eyes.

Information on: sodium methanolate

Assessment of irritating effects: Corrosive! Damages skin and eyes.

<u>Skin</u>

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Species: rabbit Result: Corrosive.

Method: similar to OECD guideline 404

Eye

Species: rabbit

Result: irreversible damage

Method: BASF-Test

Sensitization

Assessment of sensitization: As the substance is corrosive, conducting sensitization studies is not feasible. The chemical structure does not suggest a sensitizing effect.

Aspiration Hazard

Harmful if swallowed.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Study does not need to be conducted. The chemical structure does not suggest a specific alert of toxicity on target organs after repeated exposure.

Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Carcinogenicity

Assessment of carcinogenicity: Study does not need to be conducted. The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity: Study does not need to be conducted. The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity

Information on: ethylene glycol

Assessment of teratogenicity: Developmental toxicity was observed after oral ingestion of high doses in studies with rats and mice, but this effect was not seen in a study with rabbits. Mechanistic studies show that the rabbit is the relevant species for the classification for human health. As such, and since ethylene glycol is not a developmental toxicant in the rabbit, no classification is warranted.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

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The product has not been tested. The statement has been derived from the properties of the hydrolysis products. The product gives rise to pH shifts.

Toxicity to fish

LC50 (96 h) 15,400 mg/l, Lepomis macrochirus (Fish test acute, Flow through.) Literature data. The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

Aquatic invertebrates

EC50 (96 h) 18,260 mg/l, Daphnia magna (DIN 38412 Part 11, semistatic)

Literature data. The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

Aquatic plants

EC50 (96 h) approx. 22,000 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201. static)

Literature data. The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

Chronic toxicity to fish

No observed effect concentration (200 h) 7,900 mg/l, Oryzias latipes (static)

The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

No observed effect concentration (30 d) 450 mg/l, Pimephales promelas (calculated) The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d) 208 mg/l, Daphnia magna (calculated)

The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

Aquatic toxicity

Information on: sodium hydroxide

Assessment of aquatic toxicity:

Depending on local conditions and existing concentrations, disturbances in the nitrification process of activated sludge are possible. There is a high probability that the product is not acutely harmful to aquatic organisms.

The effect strongly depends on the pH-value. The data refers to the dissociated form of the substance.

Information on: Methanol

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish

Information on: sodium hydroxide

LC50 (96 h) 125 mg/l, Gambusia affinis (other, static)

The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample. Literature data.

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Information on: Methanol

LC50 (96 h) 15,400 mg/l, Lepomis macrochirus (other, Flow through.)

Aquatic invertebrates

Information on: sodium hydroxide

EC50 (48 h) 40.4 mg/l, Ceriodaphnia sp. (other, static)

Literature data.

Information on: Methanol

EC50 (48 h) 18,260 mg/l, Daphnia magna (OECD Guideline 202, part 1, semistatic)

Aquatic plants

Information on: Methanol

EC50 (96 h) approx. 22,000 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201,

static)

Assessment of terrestrial toxicity

No toxic effects have been observed in terrestrial studies.

Soil living organisms

Toxicity to soil dwelling organisms:

No observed effect concentration (63 d) 10,000 mg/kg, Eisenia foetida (OECD Guideline 222, artificial soil)

The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Toxicity to terrestrial plants

EC50 41,000 mg/l, Lactuca sativa

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

No observed effect concentration 1,555 mg/kg, terrestrial plants

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Other terrestrial non-mammals

No data available.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

OECD Guideline 209 static

activated sludge/EC50 (3 h): > 1,000 mg/l

Literature data. The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

Information on: Methanol OECD Guideline 209 aquatic

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activated sludge of a predominantly domestic sewage/EC50 (3 h): > 1,000 mg/l Inhibition of nitrification aquatic
Bacteria/EC50 (24 h): 880 mg/l

Persistence and degradability

Assessment biodegradation and elimination (H2O) Readily biodegradable (according to OECD criteria).

Elimination information

90 - 100 % BOD of the ThOD (20 d) (aerobic, activated sludge, domestic, non-adapted) Literature data. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Assessment biodegradation and elimination (H2O)

Information on: Methanol

Readily biodegradable (according to OECD criteria).

Elimination information

Information on: Methanol

95 % BOD of the ThOD (20 d) (OECD 301D; 92/69/EWG, C.4-E) (aerobic, activated sludge,

domestic, non-adapted) Readily biodegradable (according to OECD criteria).

Assessment of stability in water

In contact with water the substance will hydrolyse rapidly.

Study technically not feasible.

Bioaccumulative potential

Assessment bioaccumulation potential

Does not significantly accumulate in organisms.

Bioaccumulation potential

Bioconcentration factor: 4.5 (72 h), Cyprinus carpio (measured)

The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

Assessment bioaccumulation potential

Information on: sodium hydroxide

Accumulation in organisms is not to be expected.

Information on: Methanol

Significant accumulation in organisms is not to be expected.

Mobility in soil

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Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is not expected.

Additional information

Adsorbable organically-bound halogen(AOX):

This product contains no organically-bound halogen.

Other ecotoxicological advice:

Do not release untreated into natural waters. Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The local regulations on waste-water treatment must be followed.

13. Disposal considerations

Waste disposal of substance:

Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with national, state and local regulations. Dispose of in a RCRA-licensed facility.

Container disposal:

Do not reuse containers without commercial reconditioning. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport

TDG

Hazard class: 4.2
Packing group: II
ID number: UN 1431
Hazard label: 4.2. 8

Proper shipping name: SODIUM METHYLATE

Sea transport

IMDG

Hazard class: 4.2
Packing group: II
ID number: UN 1431
Hazard label: 4.2, 8
Marine pollutant: NO

Proper shipping name: SODIUM METHYLATE

Air transport

IATA/ICAO

Hazard class: 4.2
Packing group: II
ID number: UN 1431
Hazard label: 4.2, 8

Proper shipping name: SODIUM METHYLATE

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Further information

Specific national features of transport regulations must be observed. They are to be found in the shipping documents.

15. Regulatory Information

Federal Regulations

Not applicable

NFPA Hazard codes:

Health: 3 Fire: 3 Reactivity: 2 Special: -W-

16. Other Information

SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2025/01/07

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This information is considered accurate but is not exhaustive and shall only be used as a guideline based on current knowledge of the chemical substance or mixture. Safety precautions suitable for the product must be applied.

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