Printing date 06/04/2024

Reviewed on 06/04/2024

ONS

# **1** Identification

- · Product identifier
- · Trade name: Sodium Methoxide 25% w/w in Methanol
- Article number: S3121
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA

800-256-2586

- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- *Emergency telephone number: Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

# **2** Hazard(s) identification

$\bigtriangledown$	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS06 Skull and crossbones	
Acute Toxicity - Oral 3	H301 Toxic if swallowed.
Acute Toxicity - Dermal 3	H311 Toxic in contact with skin.
Acute Toxicity - Inhalation 3	H331 Toxic if inhaled.
GHS08 Health hazard Specific Target Organ Toxicity - Single Exposure 1	H370 Causes damage to the central nervous system and the visual organs.
GHS05 Corrosion	
Skin Corrosion 1B	H314 Causes severe skin burns and eye damage.
Eye Damage 1	H318 Causes serious eye damage.

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Trade name: Sodium Methoxide 25% w/w in Methanol	
	(Contd. of page 1)
· Hazard pictograms	
$\land \land \land \land \land$	
GHS02 GHS05 GHS06 GHS08	
· Signal word Danger	
· Hazard-determining components of labeling:	
Methanol	
Sodium Methoxide (Sodium Methylate)	
· Hazard statements	
Highly flammable liquid and vapor.	
Toxic if swallowed, in contact with skin or if inhaled.	
Causes severe skin burns and eye damage.	
Causes damage to the central nervous system and the visual organs.	
· Precautionary statements	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dusts or mists.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present	and easy to do.
Continue rinsing.	
IF exposed: Call a POISON CENTER or doctor/physician.	
Call a poison center/doctor if you feel unwell.	
Take off immediately all contaminated clothing and wash it before reuse.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations	<i>s</i> .
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 3	
$\frac{3}{Fire = 3}$	
$\begin{array}{c} 3 \\ \end{array} \begin{array}{c} 0 \\ Reactivity = 0 \end{array}$	
Keucuvuy = 0	
· HMIS-ratings (scale 0 - 4)	
$\frac{\text{HEALTH}}{\text{HEALTH}} = *3$	
FIRE 3 $Fire = 3$	
<b>REACTIVITY</b> $0$ Reactivity = 0	
	(0, (1, -0))
	(Contd. on page 3)

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#### Trade name: Sodium Methoxide 25% w/w in Methanol

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75.0%

25.0%

- Other hazards
- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

#### · Dangerous components:

CAS: 67-56-1 Methanol

#### CAS: 124-41-4 Sodium Methoxide (Sodium Methylate)

## 4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

- Remove breathing apparatus only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:
- Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:

Do not induce vomiting; immediately call for medical help.

- Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **5** Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

## 6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.*
- Wear protective equipment. Keep unprotected persons away.
- *Environmental precautions: Dilute with plenty of water.*

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#### Trade name: Sodium Methoxide 25% w/w in Methanol

		(Contd. of page 3)
Do not allow to	(	
	aterial for containment and cleaning up:	
Absorb with liq	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizin	g agent.	
	inated material as waste according to section 13.	
Ensure adequat		
· Reference to ot		
	r information on safe handling.	
	r information on personal protection equipment.	
	for disposal information.	
• Protective Actio	on Criteria for Chemicals	
· PAC-1:		
CAS: 67-56-1	Methanol	530 ppm
CAS: 124-41-4	Sodium Methoxide (Sodium Methylate)	$6.1 mg/m^3$
· PAC-2:		
CAS: 67-56-1	Methanol	2,100 ppm
CAS: 124-41-4	Sodium Methoxide (Sodium Methylate)	67 mg/m <sup>3</sup>
· PAC-3:		
CAS: 67-56-1	Methanol	7200* ppm
CAS: 124-41-4	Sodium Methoxide (Sodium Methylate)	400 mg/m <sup>3</sup>

## 7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- *Store in cool, dry conditions in well sealed receptacles.*
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

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A 4 41	(Contd. of page 4)
	is time, the remaining constituent has no known exposure limits. : 67-56-1 Methanol
	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 325 mg/m <sup>3</sup> , 250 ppm
	Long-term value: 260 mg/m³, 200 ppm Skin
ILV	Short-term value: 250 ppm Long-term value: 200 ppm
	Skin: BEI
. Ingr	edients with biological limit values:
-	: 67-56-1 Methanol
	15 mg/L
DEI	LD50 Intraperitoneal: urine
	Time: end of shift
	LD50: Methanol (background, nonspecific)
·Addi	tional information: The lists that were valid during the creation were used as basis.
· Pers · Gen Keep Imm Wass Store Avoi Avoi · Brea In co resp	osure controls onal protective equipment: eral protective and hygienic measures: o away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work. e protective clothing separately. d contact with the eyes. d contact with the eyes and skin. <b>thing equipment:</b> use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use irratory protective device that is independent of circulating air. ection of hands: Protective gloves
Due chen Selec • <b>Mate</b> The varie	glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the nical mixture. tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation <b>erial of gloves</b> selection of the suitable gloves does not only depend on the material, but also on further marks of quality and the software for manufacture to manufacture. As the product is a preparation of several substances, the resistance of love material can not be calculated in advance and has therefore to be checked prior to the application

the glove material can not be calculated in advance and has therefore to be checked prior to the application. • Penetration time of glove material

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

• Eye protection:



Tightly sealed goggles

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# Trade name: Sodium Methoxide 25% w/w in Methanol

· Body protection: Protective work clothing

Information on basic physical and o	chemical properties
General Information	
Appearance:	<b>7</b> · · · <b>1</b>
Form: Color:	Liquid Clear
· Odor:	Alcohol
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	64.7 °C (148.5 °F)
Flash point:	17.3 °C (63.1 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	70 °C (158 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	5.5 Vol %
Upper:	44 Vol %
Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
Density at 20 °C (68 °F):	0.945 g/cm <sup>3</sup> (7.88603 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	75.0 %
VOC content:	75.00 % 708.8 g/l / 5.91 lb/gal
	25.0 %

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## Safety Data Sheet acc. to OSHA HCS

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#### Trade name: Sodium Methoxide 25% w/w in Methanol

• Other information

No further relevant information available.

#### **10 Stability and reactivity**

· Reactivity No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

#### **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)			
	LD50	131 mg/kg	
Dermal	LD50	131 mg/kg 400 mg/kg	
Inhalative	LC50/4h	4 mg/l	

#### · Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

- on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

· Sensitization: No sensitizing effects known.

· Additional toxicological information:

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

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· 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-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

#### **12 Ecological information**

· Toxicity

• Aquatic toxicity: No further relevant information available.

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## Safety Data Sheet acc. to OSHA HCS

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#### Trade name: Sodium Methoxide 25% w/w in Methanol

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Additional ecological information:

#### · General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

## **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number · DOT, IMDG, IATA	UN1289
· UN proper shipping name · DOT · IMDG, IATA	Sodium methylate solutions, in Alcohol SODIUM METHYLATE SOLUTIONS IN ALCOHOL
· Transport hazard class(es)	
· Class · Label	3 Flammable liquids 3, 8
· IMDG	
· Class	3 Flammable liquids

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## Trade name: Sodium Methoxide 25% w/w in Methanol

	(Contd. of page
Label	3/8
IATA	
Class	3 Flammable liquids
Label	3 (8)
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code)	
EMS Number:	F-E,S-C
Stowage Category	В
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1289 SODIUM METHYLATE SOLUTIONS IN ALCOHOL,
č	(8), II

# **15 Regulatory information**

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. Sara

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· Suru		
· Section 355 (extremely hazardous substances):		
None of the ingredients is listed.		
· Section 313 (Specific toxic chemical listings):		
CAS: 67-56-1 Methanol		
· TSCA (Toxic Substances Control Act):		
Methanol	ACTIVE	
Sodium Methoxide (Sodium Methylate)	ACTIVE	
· Hazardous Air Pollutants		
CAS: 67-56-1 Methanol		
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· Proposition 65

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Trade name: Sodium Methoxide 25% w/w in Methanol

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· 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:

CAS: 67-56-1 Methanol

· Carcinogenic categories

 $\cdot$  EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value)

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 Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

· Hazard-determining components of labeling: Methanol Sodium Methoxide (Sodium Methylate) · Hazard statements Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. Causes damage to the central nervous system and the visual organs. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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#### Trade name: Sodium Methoxide 25% w/w in Methanol

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IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed: Call a POISON CENTER or doctor/physician.

Call a poison center/doctor if you feel unwell.

Take off immediately all contaminated clothing and wash it before reuse.

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

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

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

· Contact:

Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2, 06/04/2024: Reviewed SDS for accuracy. MH/STN 06/04/2024 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Acute Toxicity - Oral 3: Acute toxicity - Category 3

Eye Damage 1: Serious eye damage/eye irritation – Category 1 Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1

• \* Data compared to the previous version altered.

Skin Corrosion 1B: Skin corrosion/irritation - Category 1B

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