

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) and Canadian Workplace Hazardous Material Information System (WHMIS 2015)

Revision date 02-Jul-2024 Revision Number 1

## 1. Identification

## **Product identifier**

Product Catalog Number:	Product Description:
60-4600-XX	0.05M Potassium Carbonate in Methanol

Product Code(s) Product Name
60-4600-XX Deprotection Solution

Other means of identification

UN number or ID number UN1230

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use No information available

Restrictions on use Not for human diagnostic use

Details of the supplier of the safety data sheet

## **Manufacturer Address**

Glen Research LLC 22825 Davis Drive Sterling, VA 20164 USA

## Emergency telephone number

Company Phone Number 1-703-437-6191

**Emergency Telephone** CHEMTREC Customer Number (CCN): 234802 Glen Research Corporation

US: 1-800-424-9300 or Local: +1-703-527-3887

EMEA: +44 20 3885 0382 APAC: +65 3163 8374

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E-mail address support@glenresearch.com

# 2. Hazard(s) identification

## Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Specific target organ toxicity (single exposure)	Category 1 Category 3
Flammable liquids	Category 2

Appearance Clear liquid

Physical state Liquid

Odor No information available

#### Label elements

## Signal word

Danger

## **Hazard statements**

Toxic if swallowed
Toxic in contact with skin
Toxic if inhaled
Causes damage to organs
May cause respiratory irritation. May cause drowsiness or dizziness
Highly flammable liquid and vapor



#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves and protective clothing Use only outdoors or in a well-ventilated area Do not breathe dust, fume, gas, mist, vapors and spray

#### **Precautionary Statements - Response**

IF exposed: Call a POISON CENTER or doctor

#### Skin

IF ON SKIN: Wash with plenty of water and soap Call a POISON CENTER or doctor if you feel unwell

Take off immediately all contaminated clothing and wash it before reuse

## Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor

## Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth

## **Precautionary Statements - Storage**

Store locked up

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

## **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant

## Other information

Harmful to aquatic life.

# 3. Composition/information on ingredients

## **Substance**

Not applicable.

## <u>Mixture</u>

Chemical name	CAS No.	Weight-%	Information Review	Date HMIRA filed and date exemption granted (if applicable)
Methanol	67-56-1	98-99.5	-	-
Potassium Carbonate	584-08-7	0.5-1.5		

## 4. First-aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

**Inhalation** Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

Eye contact Get immediate medical attention. Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes. Keep eye wide open while rinsing.

Skin contact Get immediate medical attention. Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get immediate medical attention.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Wear personal protective clothing

(see section 8). Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation.

Most important symptoms and effects, both acute and delayed

Symptoms Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting. May cause blindness.

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

## 5. Fire-fighting measures

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

Hazardous combustion products Carbon oxides. Potassium oxides.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge

None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas.

**Other information** Refer to protective measures listed in Sections 7 and 8.

## Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Take up mechanically, placing in appropriate

containers for disposal.

# 7. Handling and storage

## Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists. In case of insufficient ventilation, wear

suitable respiratory equipment.

## Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up. Protect from sunlight.

# 8. Exposure controls/personal protection

# Control parameters Exposure Limits

Chemical name		ACGIH TLV		0:	SHA PEL		NIOSH
Methanol		STEL: 250 ppm		TWA: 200 ppm			IDLH: 6000 ppm
67-56-1		TWA: 200	ppm	TWA: 260 mg/m <sup>3</sup>			TWA: 200 ppm
		S*		(vacated) TWA: 200 ppm			TWA: 260 mg/m <sup>3</sup>
				(vacated)	TWA: 260 mg/m <sup>3</sup>		STEL: 250 ppm
				(vacated)	STEL: 250 ppm		STEL: 325 mg/m <sup>3</sup>
				(vacated)	STEL: 325 mg/m <sup>3</sup>		_
				(va	cated) S*		
Chemical name		Alberta	British C	Columbia	Ontario		Quebec
Methanol	Т	WA: 200 ppm	TWA: 2	00 ppm	TWA: 200 ppr	n	TWA: 200 ppm
67-56-1	T۱	NA: 262 mg/m <sup>3</sup>	STEL: 2	250 ppm	STEL: 250 ppr	m	TWA: 262 mg/m <sup>3</sup>
	S	STEL: 250 ppm	SI	kin	Skin		STEL: 250 ppm
	Sī	ΓEL: 328 mg/m <sup>3</sup>					STEL: 328 mg/m <sup>3</sup>
		Skin					Skin

## Biological occupational exposure limits

Chemical name	ACGIH
Methanol	15 mg/L - urine (Methanol) - end of shift
67-56-1	

#### Appropriate engineering controls

**Engineering controls** Showers

> Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do General hygiene considerations

> not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling

the product.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

**Physical state** Liquid Clear liquid **Appearance** Color Clear

Odor No information available **Odor threshold** No information available

Property Values Remarks • Method

No data available None known рΗ Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known Flash point None known No data available No data available **Evaporation rate** None known No data available **Flammability** None known Flammability Limit in Air None known

Upper flammability or explosive

No data available

limits

Lower flammability or explosive No data available

limits

No data available Vapor pressure None known No data available Relative vapor density None known 0.80g/mL Relative density None known Water solubility Completely soluble None known No data available Solubility in other solvents None known

Partition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other information

Explosive properties

Oxidizing properties

No information available

# 10. Stability and reactivity

Reactivity No information available

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions 
If overheated, the product may release flammable vapors that can form explosive gas

mixtures.

Conditions to avoid Heat, flames and sparks. Extremes of temperature and direct sunlight.

**Incompatible materials** Oxidizing agent. Oxygen.

Hazardous decomposition products Carbon oxides. Potassium oxides.

## 11. Toxicological information

## Information on likely routes of exposure

#### **Product Information**

**Inhalation** May cause irritation of respiratory tract. May cause drowsiness or dizziness.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available. Toxic in contact with skin.

(based on components).

**Ingestion** Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on

components).

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting.

**Acute toxicity** 

Numerical measures of toxicity

No information available

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 101.00 mg/kg

 ATEmix (dermal)
 302.60 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

 ATEmix (inhalation-dust/mist)
 0.506 mg/l

## ATEmix (inhalation-vapor) 42.10 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methanol 67-56-1	= 6200 mg/kg (Rat)	= 15840 mg/kg ( Rabbit )	= 22500 ppm (Rat) 8 h
Potassium Carbonate 584-08-7	= 1870 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 4.96 mg/L (Rat)4.5 h

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**No information available.

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

STOT - single exposure Based on the classification criteria of the Globally Harmonized System as adopted in the

country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). Causes damage to organs if swallowed. Causes damage to organs in contact with skin.

May cause respiratory irritation. May cause drowsiness or dizziness.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

# 12. Ecological information

**Ecotoxicity** Harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methanol 67-56-1		LC50: =28200mg/L (96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas) LC50: 19500 - 20700mg/L (96h, Oncorhynchus mykiss) LC50: 18 - 20mL/L (96h, Oncorhynchus mykiss) LC50: 13500 - 17600mg/L (96h, Lepomis		-
Potassium Carbonate	-	macrochirus) -	-	LC50: =630mg/L (48h,

584-08-7		Ceriodaphnia dubia)

Persistence and degradability

No information available.

#### **Bioaccumulation**

**Component Information** 

Chemical name	Partition coefficient
Methanol	-0.77
67-56-1	

Mobility in soil No information available.

Other adverse effects No information available.

# 13. Disposal considerations

#### **Disposal methods**

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Dispose of in accordance with federal, state and local regulations. Do not reuse empty

containers.

California waste information This product contains one or more substances that are listed with the State of California as

a hazardous waste.

## 14. Transport information

DOT Regulated UN1230 **UN** number or ID number Methanol Proper shipping name

Transport hazard class(es)

Packing group

Class 3

Packing Group II

IATA Regulated UN1230

**UN** number or ID number Methanol **UN** proper shipping name Class 3, (6.1) Transport hazard class(es) Packing group Packing Group II

**IMDG** Regulated

**UN number or ID number** Transport hazard class(es)

Packing group EmS-No.

UN1230 Class 3, (6.1) Packing Group II EMS-No: F-E, S-D

# 15. Regulatory information

## Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

## **International Inventories**

**TSCA** Not determined. **DSL/NDSL** Not determined. **EINECS/ELINCS** Not determined. Not determined. **ENCS** Not determined. **IECSC** KECI Not determined. **PICCS** Not determined. AIIC Not determined.

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

#### **US Federal Regulations**

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Methanol - 67-56-1	1.0

## SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Methanol 67-56-1	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

## **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals		
Chemical name	California Proposition 65	

Methanol - 67-56-1	Developmental
Widtharior of oo i	p Dovolopinontal

## **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Methanol	X	X	X
67-56-1			

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. Other information

NFPA Health hazards 3 Flammability 0 Instability 0 Special hazards - Halls Health hazards 3 Flammability 0 Physical hazards 0 Personal protection X

## Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk\* Skin designation

Revision date 02-Jul-2024

Revision Note No information available

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**End of Safety Data Sheet**