

## SAFETY DATA SHEET

Issue Date 23-Oct-2015

Revision Date 23-Oct-2015

Version 1

#### **1. IDENTIFICATION**

<u>Product identifier</u> Product Name	CM-48
Other means of identification	
Product Code	CM-48
UN/ID no.	UN2031
Synonyms	None
Recommended use of the chemica Recommended Use	
	pH Adjuster.
Uses advised against	No information available
<u>Details of the supplier of the safet</u> Supplier Address	y data sheet

Supplier Address Chemical Methods, Inc. 20338 Progress Drive Cleveland, OH 44149 Telephone: (216)476-8400

# Emergency telephone numberCompany Phone Number(216)476-840024 Hour Emergency Phone NumberCHEMTREC (800)424-9300

#### 2. HAZARDS IDENTIFICATION

#### **Classification**

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

#### Label elements

**Emergency Overview** 

Danger

Hazard statements Causes severe skin burns and eye damage



Physical state liquid

Odor Strong

#### Precautionary Statements - Prevention

Do not breathe dusts or mists Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

#### Precautionary Statements - Response

Immediately call a POISON CENTER or doctor Specific treatment (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

Harmful to aquatic life with long lasting effects Harmful to aquatic life

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
Nitric acid	7697-37-2	10 - 30	*
*The exact percentage (concentration) of composition has been withheld as a trade secret			

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#### 4. FIRST AID MEASURES

#### Description of first aid measures

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.		
Skin contact	Wash skin with soap and water.		
Inhalation	Move person to fresh air; if effects continue consult a physician.		
Ingestion	Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary.		
Most important symptoms and effects, both acute and delayed			
Symptoms	Product is corrosive to all body tissues with which it comes in contact.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically.		
5. FIRE-FIGHTING MEASURES			

#### Suitable extinguishing media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

No information available.

Hazardous combustion products During a fire, smoke may contain combustion products of varying composition which may be toxic and/or irritating. Combustion products may include oxides of phosphorous and carbon.

#### Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation, especially in confined areas.	
Environmental precautions		
Environmental precautions	See Section 12 for additional ecological information.	
Methods and material for containm	ent and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Large Spills: Dike area to contain spill and pump into properly labeled containers. Small Spills: Clean up with absorbent material and collect in suitable containers.	

#### 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.
Conditions for safe storage, includ	ing any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible materials	Strong bases. Strong oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines Exposure limits are listed below, if they exist.			
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Nitric acid 7697-37-2	STEL: 4 ppm TWA: 2 ppm	TWA: 2 ppm TWA: 5 mg/m³	IDLH: 25 ppm
1091-31-2	TWA. 2 ppm	(vacated) TWA: 2 ppm	TWA: 2 ppm TWA: 5 mg/m <sup>3</sup>
		(vacated) TWA: 5 mg/m <sup>3</sup>	STEL: 4 ppm
		(vacated) STEL: 4 ppm	STEL: 10 mg/m <sup>3</sup>

rr			
	(vacated) STEL: 10 mg/m <sup>3</sup>		
Appropriate engineering contro	ls		
Engineering Controls	Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit guidelines. If there are no applicable exposure limit guidelines, general ventilation should be sufficient for most operations.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	Wear safety glasses with side shields (or goggles). Face protection shield.		
Skin and body protection	Wear protective gloves and protective clothing.		
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.		
General Hygiene Consideration	Provide eyewash station and safety shower. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Wash contaminate clothing before reuse. Avoid contact with eyes. Avoid contact with skin.		

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance Color	liquid Clear colorless	Odor Odor threshold	Strong No information available
<u>Property</u> pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air	<u>Values</u> 0.5 $< 0 \ ^{\circ}C / 32 \ ^{\circ}F$ $> 100 \ ^{\circ}C / 212 \ ^{\circ}F$ $> 100 \ ^{\circ}C / 212 \ ^{\circ}F$ No information available No information available	<u>Remarks • Method</u>	
Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density Relative density Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties	No information available No information available No information available No information available 1.122 Soluble in water No information available No information available No information available No information available No information available No information available No information available		
Oxidizing properties <u>Other Information</u> Softening point Molecular weight VOC Content (%) Density Bulk density	No information available No information available No information available No data available No information available No information available		

#### **10. STABILITY AND REACTIVITY**

Reactivity No data available

Chemical stabilityStable under normal conditions.Possibility of Hazardous ReactionsNone under normal processing.Hazardous polymerizationHazardous polymerization does not occur.

<u>Conditions to avoid</u> Extremes of temperature and direct sunlight. <u>Incompatible materials</u> Strong bases. Strong oxidizing agents. <u>Hazardous Decomposition Products</u> Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

#### **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Chamical Nama	Orol J DE0	Dermal   DE0
Ingestion	No data available.	
Skin contact	No data available.	
Eye contact	No data available.	
Inhalation	No data available.	
Product Information	No acute toxicity information	n is available for this product

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nitric acid	-	-	= 130 mg/m <sup>3</sup> (Rat) 4 h = 67 ppm (
7697-37-2			Rat)4 h

#### Information on toxicological effects

Symptoms

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

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

Sensitization Germ cell mutagenicity Carcinogenicity	No informatic No informatic The table bel		n agency has listed any ing	gredient as a carcinogen.
Chemical Name	ACGIH	IARC	NTP	OSHA
Nitric acid 7697-37-2	-	Group 2A Group 1	-	Х
Reproductive toxicity STOT - single exposure STOT - repeated exposur Aspiration hazard	e No information	No information available. No information available. No information available. No information available. No information available.		

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document . ATEmix (inhalation-vapor) 332.00

#### **12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

79.84 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

	Chemical Name	Algae/aquatic plants	Fish	Crustacea
Γ	Nitric acid	-	72: 96 h Gambusia affinis mg/L	-
	7697-37-2		LC50	

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
Nitric acid	-2.3
7697-37-2	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS			
Naste treatment methods			
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.		
Contaminated packaging	Do not reuse container.		

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

Chemical Name	California Hazardous Waste Status
Nitric acid	Toxic
7697-37-2	Corrosive
	Ignitable

### **14. TRANSPORT INFORMATION**

DOT	Regulated
UN/ID no.	UN2031
Hazard Class	nitric acid, 8
Packing Group	II

#### **15. REGULATORY INFORMATION**

International Inventories		
TSCA	Complies	
DSL/NDSL	Complies	
EINECS/ELINCS	Complies	
ENCS	Does not comply	
IECSC	Complies	
KECL	Complies	
PICCS	Complies	
AICS	Complies	

#### 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 AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Nitric acid 7697-37-2	1000 lb	-	-	Х

#### 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	CERCLA/SARA RQ	Reportable Quantity (RQ)
Γ	Nitric acid	1000 lb	1000 lb	RQ 1000 lb final RQ
	7697-37-2			RQ 454 kg final RQ

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

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

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Flammability 0

<u>NFPA</u> HMIS Health hazards 3

Health hazards 3

Flammability 0 Instability 1

Physical hazards 1

Physical and Chemical Properties -Personal protection X

Issue Date23-Oct-2015Revision Date23-Oct-2015Revision Note23-Oct-2015No information availableDisplaiment

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. While we believe the contained data is factual and those of qualified experts, the data should not be taken as a warranty or representation for which the company assumes legal responsibility. Any use of the data and

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**End of Safety Data Sheet**