

# SAFETY DATA SHEET

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

## **1.1 Product identifiers**

CAS number See section 3

Synonyms 3% Nitric Acid in Methanol

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory Chemicals

## **1.3** Details of the supplier of the safety data sheet

Company	Lab Alley, LLC
	12501 Pauls Valley Road
	Austin, Texas 78737
	U.S.A.

Telephone	512-668-9918
Fax	512-886-4008

## 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

#### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Toxicity - Oral Category 3 Acute Toxicity - Dermal Category 3 Acute Toxicity - Inhalation Category 2 Skin Corrosion / Irritation Category 1 Eye Damage / Irritation Category 1 Reproductive Toxicity Category 1 Specific Target Organs/Systemic Toxicity Following Single Exposure Category 1 Specific Target Organs/Systemic Toxicity Following Repeated Exposure Category 1 Flammable Liquids Category 2 Corrosive to Metals Category 1

## 2.2 GHS Label elements, including precautionary statements



Precautionary P201 Obtain special instructions before use. statements P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, sparks and open flame. No smoking. P233 Keep container tightly closed. P234 Keep only in original container. P240 Ground container and receiving equipment. P241 Use explosion-proof equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust, fumes or mist. P264 Wash arms, hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves and eye protection. P285 In case of inadequate ventilation wear respiratory protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or physician. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P307+P311 IF exposed: Call a POISON CENTER or physician. P308+P313 IF exposed or concerned: Get medical attention. P310 Immediately call a POISON CENTER or physician. P312 Call a POISON CENTER or physician if you feel unwell. P314 Get medical attention if you feel unwell. P320 Specific treatment is urgent (Wash areas of contact with water immediately). P321 Specific treatment (Wash areas of contact with water immediately). P330 Rinse mouth. P361 Take off immediately all contaminated clothing and wash it before reuse. P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P406 Store in corrosive resistant container with a resistant inner liner. P501 Dispose of contents in accordance with local, state, federal and international regulations.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS None identified.

**SECTION 3: Composition/information on ingredients** 

## 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Methyl Alcohol	-	67-56-1	94.43%
Nitric Acid	-	7697-37-2	3.90%
Water	-	7732-18-5	1.67%

#### **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

General advice	Show this sheet to a doctor if medical advice is needed.
If inhaled	Remove person to fresh air and keep comfortable for breathing.
In case of skin contact	Take off immediately all contaminated clothing. Rinse skin with water. Results in drying and cracking which can lead to secondary infections and dermatitis. Dermal absorption causes many of the symptoms of inhalation.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Eye contact causes tissue damage and blindness.
If swallowed	rinse mouth. Do NOT induce vomiting. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

## 4.2 Most important symptoms and effects, both acute and delayed

Flammable and Corrosive liquid. Keep away from heat, sparks, and open flames. Keep container closed. Use with adequate ventilation. Avoid prolonged breathing of vapor or contact with skin. Do not pipet by mouth. If ingested, vomiting may occur spontaneously but do not induce. Dilute with large quantity of water and call a physician. Wash areas of contact with plenty of water for 15 minutes. For eyes, get medical attention. EYE CONTACT: Eye contact causes tissue damage and blindness. SKIN CONTACT: Results in drying and cracking which can lead to secondary infections and dermatitis. Dermal absorption causes many of the symptoms of inhalation.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water immediately).

#### **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media Dry chemical, foam, or carbon dioxide.

**Unsuitable extinguishing media** Reacts with water producing heat and toxic fumes.

## 5.2 Specific hazards arising from the substance or mixture

Highly flammable liquid and vapor. Moderate explosion hazard and dangerous fire hazard when exposed to heat, sparks and open flames. Sensitive to static discharge. Contact with most metals causes formation of flammable and explosive hydrogen gas.

## 5.3 Special protective equipment and precautions for firefighters

Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### 5.4 Further information

Flash PointApproximately 16°C.

Autoignition Temperature No data available.

#### **Explosion limits**

Upper	No data available.		
Lower	No data available.		
Sensitivity to Mechanical Impact No data available.			No data available.
Sensitivity to Static Discharge		No data available.	
NFPA			
Health	Flammability	Instability	Physical hazards
2	3	0	N/A

## **SECTION 6: Accidental release measures**

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

Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

#### 6.2 Environmental precautions

Do not allow product to enter the environment.

## 6.3 Methods and materials for containment and cleaning up

Remove all sources of ignition. Contain spill. Do not flush to sewer. Absorb with suitable inert material (vermiculite, dry sand, etc) and place in a chemical waste container for proper disposal in an approved waste disposal facility. Ventilate area of spill. Have extinguishing agent available in case of fire. Use non-sparking tools and equipment. Dispose of in accordance with local regulations.

## 6.4 Reference to other sections

Refer to protective measures listed in Sections 7 and 8. See section 13 for proper disposal.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Do not mix with bases. Empty containers may be hazardous since they retain product residues.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Store in corrosive resistant container with a resistant inner liner. Protect from freezing and physical damage. Do not mix with bases. Store in secure, flammable storage area away from all sources of ignition.

#### Incompatibilities

Strong oxidizers, strong bases, most metals, heat, sparks, open flame. Will attack some forms of plastics, rubber and coatings. May react with metallic aluminum and generate hydrogen gas.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Occupational exposure limits

Component	Туре	Value
Methyl Alcohol	TWA	200 ppm 260 mg/m³
Nitric Acid	TWA	2 ppm 5 mg/m³

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

#### **US. ACGIH Threshold Limit Values**

Component	Туре	Value
Methyl Alcohol	TWA STEL	200 ppm 250 ppm
Nitric Acid	TWA STEL	2 ppm 4 ppm

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Туре	Value
Methyl Alcohol	TWA STEL	200 ppm 250 ppm
Nitric Acid	TWA STEL	2 ppm 4 ppm

#### **Biological occupational exposure limits**

No additional information.

## 8.2 Exposure controls

#### Appropriate engineering controls

Use only outdoors or in a well-ventilated area. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limit.

#### Personal protective equipment

#### Eye/face protection

Wear protective gloves and eye protection. Safety glasses or goggles.

#### **Skin protection**

Wear protective gloves and eye protection. Chemical resistant gloves.

#### **Body Protection**

Appropriate protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved atmosphere supplied respirator must be worn.

#### Control of environmental exposure

Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Alcoholic
Odor Threshold	No data available
рН	< 1
Melting Point/Range	No data available
Boiling Point/Range	Approximately 71°C - Approximately 71°C
Evaporation Rate	No data available
Flammability (solid)	No data available
Flammability or explosive limit	
Upper	No data available
Lower	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Density	0.81

Solubility	Miscible
Partition coefficient; n-octanol/water	No data available
Autoignition Temp	No data available
Decomposition Temp	No data available
Viscosity	No data available
Molecular Formula	Mixture
Molecular Weight	Mixture
VOC Content(%)	No data available
Oxidizing properties	No data available

## 9.2 Other safety information

No information available.

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Stable under normal conditions of use and storage.

#### 10.2 Chemical stability

Stable under normal conditions of use and storage.

## 10.3 Possibility of hazardous reactions

Will not occur.

#### **10.4** Conditions to avoid

Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Keep only in original container.

#### 10.5 Incompatible materials

Strong oxidizers, strong bases, most metals, heat, sparks, open flame. Will attack some forms of plastics, rubber and coatings. May react with metallic aluminum and generate hydrogen gas.

#### 10.6 Hazardous decomposition products

Will not occur.

#### **SECTION 11: Toxicological information**

#### **11.1** Information on toxicological effects

#### **Product Information, Component Information**

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methanol	Rat: 5628 mg/kg	-	-
Nitric Acid	Human: 430 mg/kg	-	-

#### Skin corrosion/irritation

Causes severe skin burns. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection.

#### Serious eye damage/eye irritation

Causes serious eye damage. Wear protective gloves and eye protection.

#### Respiratory or skin sensitization

No information available.

## Germ cell mutagenicity

No information available.

#### Carcinogenicity

No information available.

#### Specific target organ toxicity - single exposure

Causes damage to organs. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Reproductive toxicity**

May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

## Chronic effects

No information available.

## 11.2 Additional Information

No information available.

## 12.1 Toxicity

No information available.

## **12.2 Persistence and degradability** No information available.

- **12.3 Bio accumulative potential** No information available.
- **12.4 Mobility in soil** No information available.
- **12.5 Results of PBT and vPvB assessment** No information available.
- **12.6 Endocrine disrupting properties** No information available.

#### 12.7 Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

#### **SECTION 14: Transport information**

## DOT (US)

UN NumberUN2924Proper Shipping nameFlammable liquid, corrosive, n.o.s.Hazard Class3 (8)Packaging GroupIITechnical nameMethanol, Nitric Acid

## IMDG

UN Number UN2924 Proper Shipping name Flammable liquid, corrosive, n.o.s.

Hazard Class	3 (8)
Packaging Group	II
Technical name	Methanol, Nitric Acid

## IATA

UN Number	UN2924
Proper Shipping name	Flammable liquid, corrosive, n.o.s.
Hazard Class	3 (8)
Packaging Group	II
Technical name	Methanol, Nitric Acid

#### **SECTION 15: Regulatory information**

US federal regulations

## **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)** Not applicable.

## CERCLA Hazardous Substance List (40 CFR 302.4)

Methyl Alcohol (CAS # 67-56-1): 5,000 lb RQ

## SARA 304 Emergency release notification

Nitric Acid (CAS # 7697-37-2): 1,000 lb RQ

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

## SARA 302 Extremely hazardous substance

Nitric Acid (CAS # 7697-37-2): 1000 lb TPQ

#### SARA 311/312 Hazardous

Methyl Alcohol (CAS # 67-56-1): 5000 lb final RQ; 2270 kg final RQ Nitric Acid (CAS # 7697-37-2): 1000 lb final RQ; 454 kg final RQ

## SARA 313 (TRI reporting)

Methyl Alcohol (CAS # 67-56-1): 1.0 % de minimis concentration Nitric Acid (CAS # 7697-37-2): 1.0 % de minimis concentration

#### Other federal regulations

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List** Not listed/applicable.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not listed.

#### Safe Drinking Water Act

Nitric Acid (CAS # 7697-37-2): 1,000,000 lb RQ

# FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

#### **US state regulations**

#### **US. Massachusetts RTK - Substance List**

Methyl Alcohol (CAS # 67-56-1): Present Nitric Acid (CAS # 7697-37-2): Extraordinarily hazardous

#### US. New Jersey Worker and Community Right-to-Know Act

Methyl Alcohol (CAS # 67-56-1): flammable - third degree; teratogen Methyl Alcohol (CAS # 67-56-1): SN 1222 500 lb TPQ Nitric Acid (CAS # 7697-37-2): corrosive; reactive - second degree Nitric Acid (CAS # 7697-37-2): SN 1356 500 lb TPQ Nitric Acid (CAS # 7697-37-2): SN 3722 500 lb TPQ (water dissociable, Category Code N511)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Methyl Alcohol (CAS # 67-56-1): Environmental hazard Nitric Acid (CAS # 7697-37-2): Environmental hazard Water (CAS # 7732-18-5): Present

#### **California Proposition 65**

Methyl Alcohol (CAS # 67-56-1): developmental toxicity, 3/16/2012

## **SECTION 16: Other information**

Date of Issue: 6/16/2025

## **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.