

Safety Data Sheet

Revision Date: 10/15/20

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2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:

Company:

Address:

Phone#: Fax#:

Emergency#:

Email:

Revision Number:

Intended use:

30006 / VOA Calibration Mix #1

Restek Corporation 110 Benner Circle

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For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:









Symbols:

GHS Hazard

Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1

Flammable Liquid Category 2 Classification:

Danger

Acute Toxicity - Inhalation Dust / Mist Category 3

Acute Toxicity - Dermal Category 3 Acute Toxicity - Oral Category 3

GHS Signal

Word:

GHS

GHS Hazard:

Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled.

Causes damage to organs.

GHS

Precautions:

Safety Precautions: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilation and lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands and skin 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.

First Aid

IF SWALLOWED: Immediately call a POISON CENTER/doctor/....

IF ON SKIN: Wash with plenty of soap and water. Measures:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Specific treatment see section 4.

Rinse mouth.

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

In case of fire: Use extinguishing media in section 5 for extinction.

Storage:

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

Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal:

Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot

be translated into GHS from the DSD especially when minimum classifications are given)

Repeated Exposure Specific target organ toxicity - Repeated exposure - STOT RE 1: H372 Causes damage to organs through

prolonged or repeated exposure. (No information to prove exclusion of certain routes of exposure)

Target Organs:

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS#	EINEC#	% Composition
P&T Methanol	67-56-1	200-659-6	88.2
water	7732-18-5	231-791-2	9.8
Acetone	67-64-1	200-662-2	0.5
4-Methyl-2-pentanone (MIBK)	108-10-1	203-550-1	0.5
2-Butanone (MEK)	78-93-3	201-159-0	0.5
2-hexanone	591-78-6	209-731-1	0.5

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not

breathing, give artificial respiration and have a trained individual administer oxygen. Get

medical attention immediately Remove to fresh air.

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to

prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention. None expected to be needed, however, use an eye wash to remove a chemical

from your eye regardless of the level of hazard.

Skin Contact:

Wash with soap and water. Remove contaminated clothing and launder. Get medical

attention if irritation develops or persists.

Ingestion:

Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS. No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical

care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing

agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and

keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by sparks, flames or other sources of ignition if

material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection:

Do not enter fire area without proper protection including self-contained

breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: None Known, Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow

personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure

limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the

environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions:

Toxic or severely irritating material. Avoid contacting and avoid

breathing the material. Use only in a well ventilated area. Use

spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions:

Store in a cool dry ventilated location. Isolate from

incompatible materials and conditions. Keep container(s)

closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States: ACGIH STEL ACGIH TLV-TWA OSHA Exposure IDLH Chemical Name CAS No. Limit 200 ppm TWA; 260 67-56-1 6000 ppm 250 ppm 200 ppm TWA P&T Methanol ma/m3 TWA **IDLH** STEL No data available 7732-18-5 Not None Known Not established water

established

Personal Protection:

Engineering Measures:

Local exhaust ventilation is recommended when generating excessive levels of

vapours from handling or thermal processing.

Respiratory Protection:

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to

eliminate symptoms. No respiratory protection required under normal conditions of use. If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory

protection.

Eye Protection:

Wear chemically resistant safety glasses with side shields when handling this

product. Do not wear contact lenses.

Skin Protection:

Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

9. PHYSICAL AND CHEMICAL PROPERTIES

No data available Appearance, color:

Odor: Mild Liquid **Physical State:**

Not applicable pH: No data available Vapor Pressure: Vapor Density: 1.1 (air = 1)

100 °C Boiling Point 64.7 °C at 760 mmHg (HSDB) **Boiling Point (°C):**

-98 °C Melting Point (°C): Flash Point (°F): 52

Flammability: Highly Flammable

Upper Flammable/Explosive Limit, % in air: 36

Lower Flammable/Explosive Limit, % in air: 6 Autoignition Temperature (°C):

464 deg C **Decomposition Temperature (°C):** No data available

0.791 - 0.792 g/cm3 at 20 °C Specific Gravity: **Evaporation Rate:** No data available

Odor Threshold: No data available Solubility: Moderate: 50-99% Partition Coefficient: n-octanol in water: No data available

VOC % by weight: 89.7 Molecular Weight: 32.04

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Conditions to Avoid:

Materials to Avoid / Chemical Incompatiability: None Known

Hazardous Decomposition Products:

Carbon dioxide Carbon monoxide None Known

11. TOXICOLOGICAL INFORMATION

Routes of Entry:

Inhalation, Skin Contact, Eye Contact, Ingestion

Target Organs Potentially Affected By Exposure:

Eyes, Central nervous system stimulation, Skin, GI

Tract, Respiratory Tract

None known.

Chemical Interactions That Change Toxicity:

None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:

Can cause moderate respiratory irritation, dizziness, weakness, fatique, nausea

and headache.

Inhalation Toxicity:

Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause

central nervous system depression and overexposure can cause damage to the

optic nerve resulting in visual impairment or blindness.

Skin Contact:

Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause

permanent damage.

Eye Contact:

Can cause moderate irritation, tearing and reddening, but not likely to

permanently injure eye tissue.

Ingestion Irritation:

Irritating to mouth, throat, and stomach. Can cause abdominal discomfort.

nausea, vomiting and diarrhea. Highly toxic and may be fatal if swallowed.

Ingestion Toxicity:

Toxic if swallowed. May cause target organ failure and/or death. May be fatal if

swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:

Reproductive and Developmental Toxicity:

Contains a probable or known human carcinogen. Contains a known human reproductive and/or

developmental hazard.

Inhalation:

Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see

"Target Organs)

Skin Contact:

Upon prolonged or repeated contact, can cause

moderate skin irritation, defatting, and dermatitis. Not

likely to cause permanent damage.

Ingestion:

Toxic if swallowed, May cause target organ failure

and/or death.

Component Toxicological Data:

NIOSH:

Chemical Name

CAS No.

LD50/LC50

Water Methanol 7732-18-5 67-56-1

Oral LD50 Rat >90 mL/kg Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:

OSHA:

Chemical Name No data available CAS No.

ACGIH:

Chemical Name

CAS No.

No data available

NIOSH:

Chemical Name

CAS No.

No data available

NTP:

Chemical Name

CAS No.

No data available

IARC:

Chemical Name

CAS No.

Group No.

12. ECOLOGICAL INFORMATION

Overview:

Moderate ecological hazard. This product may be dangerous

to plants and/or wildlife.

Mobility:

Persistence:

No data No data

Bioaccumulation:

No data

Degradability:

Biodegrades slowly.

Ecological Toxicity Data:

No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:

Spent or discarded material is a hazardous waste. Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous

waste determination on mixtures.

Disposal Methods:

Dispose of by incineration following Federal, State, Local, or Provincial regulations. Dispose of by waste water treatment following Federal, State, Local, or Provincial

regulations.

Waste Disposal of Packaging:

Comply with all Local, State, Federal, and Provincial

Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name:

Flammable liquids, n.o.s. (Methanol, Acetone)

UN Number:

UN1993 3

Hazard Class: Packing Group:

II

International:

IATA Proper Shipping Name:

Flammable liquids, n.o.s. (Methanol, Acetone) UN1993

UN Number:

Hazard Class: Packing Group:

П

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States: Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
P&T Methanol	67-56-1	X	X	-	X
water	7732-18-5	-	-	-	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS#	Regulation
Methyl isobutyl ketone	108-10-1	Prop 65 Cancer
Methyl isobutyl ketone	108-10-1	Prop 65 Devolop Tox
Methyl n-butyl ketone	591-78-6	Prop 65 Devolop Tox
Methanol	67-56-1	Prop 65 Devolop Tox
Methyl n-butyl ketone	591-78-6	Prop 65 Rep Male

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
P&T Methanol	67-56-1	X	X	X	X
water	7732-18-5	-	-	-	-
Acetone	67-64-1	X	X	X	X
4-Methyl-2-pentanone	108-10-1	X	X	X	X

(MIBK)					
2-Butanone (MEK)	78-93-3	X	X	X	X
2-hexanone	591-78-6	X	X	Χ	Χ

16. OTHER INFORMATION

Prior Version Date:

06/12/19

Other Information:

Any changes to the SDS compared to previous versions are marked by a vertical

line in front of the concerned paragraph.

References:

No data available

Disclaimer:

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