

Safety Data Sheet Revision Date: 10/14/20

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

1. IDENTIFICATION

Catalog Number / Product Name: 30001 / VOA Screening Mix #1

Company:

Address:

Restek Corporation
110 Benner Circle
Bellefonte, Pa. 16823
Phone#:

814-353-1300

 Phone#:
 814-353-1300

 Fax#:
 814-353-1309

Emergency#: 800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)

Email: www.restek.com

Revision Number: 14

Intended use: For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:







Symbols:

GHS Hazard

GHS Germ Cell Mutagenicity Category 1B

Classification: Carcinogenicity Category 1A

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

Flammable Liquid Category 2 Acute Toxicity - Dermal Category 3 Acute Toxicity - Oral Category 3

GHS Signal

Word:

word:

Danger

GHS Hazard: Highly flammable liquid and vapour.

Toxic if swallowed or in contact with skin.

May cause genetic defects.

May cause cancer.

Causes damage to organs.

GHS

Precautions:

Safety Obtain special instructions before use.

Precautions: Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Keep container tightly closed.

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.

Wear protective gloves/protective clothing/eye protection/face protection.

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

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

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

IF exposed: Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.

Call a POISON CENTER or doctor/physician if you feel unwell.

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: 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 Target Organs: Specific target organ toxicity - Repeated exposure - STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Minimum classification, No information to prove exclusion of certain routes of 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) Specific target organ toxicity - Repeated exposure - STOT RE 2: H373 May cause damage to ears through prolonged or repeated exposure.

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS#	EINEC #	% Composition
Methanol	67-56-1	200-659-6	99.5
p-xylene	106-42-3	203-396-5	0.1
Toluene	108-88-3	203-625-9	0.1
o-xylene	95-47-6	202-422-2	0.1
Benzene	71-43-2	200-753-7	0.1
Ethylbenzene	100-41-4	202-849-4	0.1

4. FIRST-AID MEASURES

Skin Contact:

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

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. Immediately 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 and monitor the eye daily as advised by your physician.

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.

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. Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed

material from being damaged by fire.

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

ignition at or above the low flash point giving rise to a Class B fire. 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:

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.

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 Keep away from

heat, sparks, and flame

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States: Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit	
Methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA	
Benzene	71-43-2	500 ppm IDLH	2.5 ppm STEL; 8 mg/m3 STEL	0.5 ppm TWA; 1.6 mg/m3 TWA	10 ppm TWA (apply only to exempt industry segments)	
Ethylbenzene	100-41-4	800 ppm IDLH	125 ppm STEL; 543 mg/m3 STEL	100 ppm TWA; 434 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	

Personal Protection:

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required

when handling or using this product to avoid overexposure.

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. 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 and wear a barrier cream and/or

impervious surgical style gloves. Wash hands and other exposed areas with mild

soap and water before eating, drinking, and when leaving work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color: No data available

Odor: Mild

Physical State: No data available Not applicable pH: Vapor Pressure: No data available

Vapor Density: 1.1 (air = 1)

Boiling Point (°C): 80.1 °C (HSDB) 136.1 °C (HSDB) 64.7 °C at 760 mmHg

> (HSDB) -98 °C

Melting Point (°C): Flash Point (°F): 12

Flammability: Highly Flammable

Upper Flammable/Explosive Limit, % in air: 36 Lower Flammable/Explosive Limit, % in air:

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

Specific Gravity: 0.791 - 0.792 g/cm3 at 20 °C

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: 100 Molecular Weight: 32.04

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Materials to Avoid / Chemical Incompatiability: Strong oxidizing agents

Hazardous Decomposition Products: Carbon dioxide Carbon monoxide

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

Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, 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.

Toxic if swallowed. May cause target organ failure and/or death. May be fatal if **Ingestion Toxicity:**

Long-Term (Chronic) Health Effects:

Carcinogenicity: Contains a probable or known human carcinogen.

Reproductive and Developmental Toxicity: Contains a known human reproductive and/or

developmental hazard.

Upon prolonged and/or repeated exposure, can cause Inhalation:

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.

Skin Absorption: Upon prolonged or repeated exposure, toxic if

absorbed through the skin. Likely to cause systemic

Ingestion: Toxic if swallowed. May cause target organ failure

and/or death.

Component Toxicological Data:

NIOSH:

Chemical Name LD50/LC50 CAS No.

Benzene 71-43-2 Dermal LD50 Rabbit >8200 mg/kg 100-41-4 Benzene, ethyl-

Oral LD50 Rat: 3500 mg/kg; Dermal LD50

Rabbit: 17800 uL/kg

Inhalation LC50 Rat 22500 ppm 8 h Methanol 67-56-1

Component Carcinogenic Data:

OSHA:

Chemical Name CAS No.

Benzene 71-43-2 Monograph 29, Supplement 7; 1987; {IARC -

> Group 1 (carcinogenic to humans)); Known Carcinogen; {NTP Eighth Report - Known Carcinogens); 1 ppm TWA; 5 ppm STEL; 0.5 ppm TWA action limit; Cancer hazard;

Flammable (see 29 CFR 1910.1028); {OSHA -29 CFR 1910 Specifically Regulated Chemicals}

Ethylbenzene 100-41-4 Present

ACGIH:

Chemical Name CAS No.

Benzene 71-43-2 A1-confirmed human carcinogen A3 - Confirmed Animal Carcinogen with Ethyl benzene 100-41-4 Unknown Relevance to Humans

NIOSH:

Chemical Name CAS No.

Benzene 71-43-2 potential occupational carcinogen

NTP:

Chemical Name CAS No.

Benzene 71-43-2 Known Carcinogen

IARC:

Chemical Name CAS No. Group No. Monograph 29, Supplement 7; 71-43-2 Group 1

Monograph 77 [2000] 100-41-4 Group 2B

12. ECOLOGICAL INFORMATION

Overview: Moderate ecological hazard. This product may be dangerous

to plants and/or wildlife.

Mobility: No data Persistence: No data Bioaccumulation: No data

Biodegrades slowly. Degradability: **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.

Comply with all Local, State, Federal, and Provincial Waste Disposal of Packaging:

Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name: Methanol **UN Number:** UN1230 **Hazard Class:** 3 **Packing Group:** Ш

International:

IATA Proper Shipping Name:MethanolUN Number:UN1230Hazard Class:3(6.1)Packing Group:II

Marine Pollutant: No

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

15. REGULATORY INFORMATION

United States: Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
Methanol	67-56-1	Χ	Χ	-	X
Benzene	71-43-2	Χ	Χ	-	X
Ethylbenzene	100-41-4	Χ	X	-	X

The following chemicals are listed on CA Prop 65:

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Chemical Name	CAS#	Regulation		
Benzene	71-43-2	Prop 65 Cancer		
Ethylbenzene	100-41-4	Prop 65 Cancer		
Toluene	108-88-3	Prop 65 Devolop Tox		
Benzene	71-43-2 Prop 65 Deve			
Methanol	67-56-1	67-56-1 Prop 65 Devolop Tox		
Benzene	71-43-2	Prop 65 Rep Male		

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California	
Methanol	67-56-1	X	Х	Χ	X	
p-xylene	106-42-3	X	Х	Χ	X	
Toluene	108-88-3	X	Х	Χ	X	
o-xylene	95-47-6	X	Х	Χ	X	
Benzene	71-43-2	X	Х	Χ	X	
Ethylbenzene	100-41-4	Χ	Χ	Х	Х	

16. OTHER INFORMATION

Prior Version Date: 04/10/19

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

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and accepted at your risk.