

# Safety Data Sheet Revision Date: 12/16/16

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## 1. IDENTIFICATION

Catalog Number / Product Name: Company: Address:

Phone#: Fax#: Emergency#:

Email: **Revision Number:** Intended use:

31699 / Column Performance Test Mix for HPLC **Restek Corporation** 110 Benner Circle Bellefonte, Pa. 16823 814-353-1300 814-353-1309 800-424-9300 (CHEMTREC) 703-527-3887 (Outside the ÚS) www.restek.com 8 For Laboratory use only

#### 2. HAZARD(S)IDENTIFICATION

## **Emergency Overview:**

**GHS Hazard** Symbols:





GHS Classification:	Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1 Flammable Liquid Category 2 Acute Toxicity - Inhalation Dust / Mist Category 3 Acute Toxicity - Dermal Category 3 Acute Toxicity - Oral Category 3
GHS Signal Word:	Danger
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 Measures:	<ul> <li>IF SWALLOWED: Immediately call a POISON CENTER/doctor/</li> <li>IF ON SKIN: Wash with plenty of soap and water.</li> <li>IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>IF exposed: Call a POISON CENTER or doctor/physician.</li> <li>Call a POISON CENTER or doctor/physician.</li> <li>Call a POISON CENTER or doctor/physician if you feel unwell.</li> <li>Specific treatment see section 4.</li> <li>Rinse mouth.</li> <li>Take off immediately all contaminated clothing and wash it before reuse.</li> <li>In case of fire: Use extinguishing media in section 5 for extinction.</li> </ul>

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:	No data available.
Repeated Exposure Target Organs:	No data available.

## 3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	99.397800
amitriptyline hydrochloride	549-18-8	208-964-6	0.280000
Ethylbenzene	100-41-4	202-849-4	0.170000
Toluene	108-88-3	203-625-9	0.140000

## 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
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.
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.

## 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: Hazardous Combustion Products:	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. 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

#### 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 heat, sparks, and flame	

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States: Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	<b>Limit</b> 200 ppm TWA; 260 mg/m3 TWA
amitriptyline hydrochloride	549-18-8	ND	OTEL	No TLV	No data available.
Ethylbenzene	100-41-4	800 ppm IDLH	125 ppm STEL; 543 mg/m3 STEL	20 ppm TWA 100 ppm TWA; 434 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA
Toluene	108-88-3	ND		20 ppm TWA 50 ppm TWA; 188 mg/m3 TWA	200 ppm TWA; C 300 ppm
Personal Protection: Engineering Measures: Respiratory Protection:			Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing. 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		

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available.
Odor:	Mild
Physical State:	No data available.
pH:	No data available.
Vapor Pressure:	No data available.
Vapor Density:	1.1 (air = 1)
Boiling Point:	No data available.
Melting Point:	-98 °C
Flash Point:	52
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature:	464 deg C
Decomposition Temperature:	No data available.
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available.
Odor Threshold:	ND
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available.
VOC % by weight:	99.4
Molecular Weight:	32.04

## **10. STABILITY AND REACTIVITY**

Stable under normal conditions. None known. Strong oxidizing agents Carbon dioxide Carbon monoxide

## 11. TOXICOLOGICAL INFORMATION

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Routes of Entry:		Inhalation, Skin Contact, Eye Contact, Ingestion		
Target Organs Potentially Affected By Exposure:				
		Tract, Respiratory Tract		
Chemical Interactions T	hat Change Toxicity:	None Known		
Inhalation Irritation:	h Effects by Route of Exp			
Innalation Irritation:	and headache.	piratory irritation, dizziness, weakness, fatigue, nausea		
Inhalation Toxicity:		mic damage (see "Target Organs)Methanol can cause		
initialation revierty.		epression and overexposure can cause damage to the		
	optic nerve resulting in visual impairment or blindness.			
Skin Contact:		irritation, defatting, and dermatitis. Not likely to cause		
	permanent damage.			
Eye Contact:	Can cause moderate irrita	ation, tearing and reddening, but not likely to		
	permanently injure eye tis			
Ingestion Irritation:		and stomach. Can cause abdominal discomfort,		
Ingestion Toxisity		rrhea.Highly toxic and may be fatal if swallowed.		
Ingestion Toxicity:	swallowed.	ause target organ failure and/or death.May be fatal if		
	swallowed.			
Long-Term (Chronic) He	alth Effects:			
Carcinogenicity:		Contains a probable or known human carcinogen.		
Reproductive and Deve	opmental Toxicity:	Contains a known human reproductive and/or		
		levelopmental 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 Toxicologica	al Data:			
NIOSH:	al Data.			
Chemical Name	CAS No.	LD50/LC50		
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h		
Benzene, ethyl-	100-41-4	No data available.		
Component Carcinogeni	c Data:			
OSHA: Chemical Name	CAS No.			
Ethylbenzene	100-41-4 Present			
	TUU-TI-T	i rooont		
ACGIH:				
Chemical Name	CAS No.			
Ethyl benzene	100-41-4	A3 - Confirmed Animal Carcinogen with		
		Linknown Relevance to Humans		

Unknown Relevance to Humans

NIOSH:

Chemical Name No data available.

NTP: Chemical Name No data available.

IARC: Chemical Name

CAS No.

CAS No.

CAS No.

Group No.

No data.	
No data.	
Ethylbenzene	100-41-4

Group 1 Group 2A Group 2B

## 12. ECOLOGICAL INFORMATION

Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. No data No data Biodegrades slowly.
No data No data Biodegrades slowly.
No data Biodegrades slowly.
Biodegrades slowly.
No data available.
Spent or discarded material is a hazardous waste.
Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Comply with all Local, State, Federal, and Provincial Environmental Regulations.
Methanol
UN1230
3
II
Methanol
UN1230
3(6.1)

## 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
methanol amitriptyline hydrochloride	67-56-1 549-18-8	X -	X -	-	X X
Ethylbenzene Toluene	100-41-4 108-88-3	X X	X X	-	X X

## The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Ethylbenzene	100-41-4	Prop 65 Cancer
Methanol	67-56-1	Prop 65 Devolop Tox
Toluene	108-88-3	Prop 65 Devolop Tox

## State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	Х	Х	Х	Х
amitriptyline hydrochloride	549-18-8	-	-	-	-
Ethylbenzene	100-41-4	Х	Х	Х	Х
Toluene	108-88-3	Х	Х	Х	Х

## 16. OTHER INFORMATION

Prior Version Date:	09/09/14
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:	Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding prodcuts described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.