

Safety Data Sheet Revision Date: 09/16/14 www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name: Company: Address:

Phone#: Fax#: Emergency#:

Email: Revision Number: Intended use: **30025, 30025-5XX, & 30125 / Benzene-d6 Mix** Restek Corporation 110 Benner Circle Bellefonte, Pa. 16823 814-353-1300 814-353-1309 800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US) sds@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 - Inhalation Vapour Category 3 Acute Toxicity - Inhalation Gas 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. Toxic 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 no 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:	 IF SWALLOWED: Immediately call a POISON CENTER/doctor/ 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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed: Call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment see section 4.

	Specific measures see section 4. Rinse mouth. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing 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:	No data available.
Repeated Exposure Target Organs:	No data available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	EINEC #	% Composition	
methanol	67-56-1	200-659-6	99.800000	
benzene-d6	1076-43-3		0.200000	

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 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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States: Chemical Name methanol	CAS No. 67-56-1	IDLH 6000 ppm IDLH	ACGIH STEL 250 ppm STEL	ACGIH TLV-TWA 200 ppm TWA	OSHA Exposure Limit 200 ppm TWA; 260 mg/m3 TWA
benzene-d6	1076-43-3	ND		No TLV	No data available.
Personal Protection: Engineering Measur Respiratory Protect	res:		vapors from han Respiratory prot product. Genera Use a respirator eliminate sympto experiencing sym provide respirator	dling or thermal processin ection may be required to I or local exhaust ventilation if general room ventilation oms.If an exposure limit is nptoms of inhalation over ory protection.	avoid overexposure when handling this on is the preferred means of protection. In is not available or sufficient to exceeded or if an operator is exposure as explained in Section 3,
Eye Protection:			•	resistant safety glasses v wear contact lenses.	with side shields when handling this
Skin Protection:			regular intervals	Clean protective equipme	chemical break-through and replace at ent regularly. Wash hands and other before eating, drinking, and when

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available.
Odor:	Mild
Physical State:	No data available.
pH:	No data available
Vapor Density:	1.1 (air = 1)
Melting Point:	-98 °C
Flash Point:	52
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36.0
Lower Flammable/Explosive Limit, % in air:	6.0
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:	No data available.
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available.
VOC % by weight:	99.80
Molecular Weight:	32.04
10. STABILITY AND REACTIVITY	
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Stability:

Conditions to Avoid:
Materials to Avoid / Chemical Incompatiability:
Hazardous Decomposition Products:

Stable under normal conditions. No data available. Strong oxidizing agents Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:

Inhalation, Skin Contact, Eye Contact, Ingestion

Target Organs Potentia	ally Affected By Exposure	: Eyes, Central nervous system stimulation, Skin, GI
Chemical Interactions	That Change Toxicity:	Tract, Respiratory Tract None Known
Immediate (Acute) Heal	th Effects by Route of Exp	oosure:
Inhalation Irritation:	Can cause moderate resp	piratory irritation, dizziness, weakness, fatigue, nausea
Inhalation Toxicity:	central nervous system d	emic damage (see "Target Organs)Methanol can cause epression and overexposure can cause damage to the
Skin Contact:		sual impairment or blindness. n irritation, defatting, and dermatitis. Not likely to cause
	permanent damage.	
Eye Contact:	Can cause moderate irrita permanently injure eye tis	ation, tearing and reddening, but not likely to
Ingestion Irritation:		and stomach. Can cause abdominal discomfort,
Ingestion Toxicity:		rrhea.Highly toxic and may be fatal if swallowed. ause target organ failure and/or death.May be fatal if
Long-Term (Chronic) H	ealth Effects:	
Carcinogenicity:		No data.
Reproductive and Deve	elopmental Toxicity:	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 Toxicologi	cal Data:	
NIOSH:		
Chemical Name Methanol	CAS No. 67-56-1	LD50/LC50 Oral LD50 Rat 5628 mg/kg (Source: NLM_CIP); Inhalation LC50 Rat 83.2 mg/L 4 h (Source: IUCLID)
Component Carcinoger	nic Data:	
OSHA: Chemical Name	CAS No.	
No data available.		
ACGIH:		
Chemical Name No data available.	CAS No.	
NIOSH: Chemical Name No data available.	CAS No.	
NTP: Chemical Name No data available.	CAS No.	
IARC: Chemical Name No data. No data. No data.	CAS No.	Group No. Group 1 Group 2A Group 2B

12. ECOLOGICAL INFORMATION

Moderate ecological hazard. This product may be dangerous

Mobility: Persistence: Bioaccumulation: Degradability: Ecological Toxicity			to plants a No data No data No data Biodegrade No data av				
			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.				
14. TRANSPORTAT	ON INFORMATIO	N					
United States: DOT Proper Shippir UN Number: Hazard Class: Packing Group:	ng Name:		Methanol UN1230 3 II				
International: IATA Proper Shippi UN Number: Hazard Class: Packing Group:	ng Name:		Methanol UN1230 3 (6.1) II				
Marine Pollutant:			No				
15. REGULATORY I	NFORMATION						
United States: Chemical Name methanol benzene-d6	CAS# 67-56-1 1076-43-3	CERCLA X		SARA 313 X	SARA EHS 313	TSCA X X	
The following cher Chemical Name Methanol	nicals are listed o	n CA Prop 65 CAS # 67-56-1	5:	Regulation Prop 65 Devolop To	х		
State Right To Kno Chemical Name methanol benzene-d6	ow Listing: CAS# 67-56-1 1076-43-3	New Jerse X -	y	Massachusetts X -	Pennsylvania X -	California X -	
16. OTHER INFORM	ΔΤΙΟΝ						
Prior Version Date: Disclaimer:	10/24/13 Restek Corporat herein in good fa accuracy. It is pr processing or ap assessment to d prior to use. No fitness for a part information set fo be considered a data and information	ith but makes ovided for you plication/use, etermine the warranties of a cular purpose orth. In no cas part of our ter ation furnished	no represe ar guidance Restek Co suitability of any kind, ei a, are made se shall the ms and cor I hereunder	only. Because ma rporation recomme a product for your ther expressed or i regarding prodcut descriptions, inform aditions of sale. Fu	mprehensiveness of ny factors may affe ends you perform ar particular purpose mplied, including s described, data of nation, or data prov rther, the descriptio lo obligation or liab	ct , ided ns, ility	

for the description, data and information given are assumed. All such being given and accepted at your risk.