

Safety Data Sheet

Revision Date: 08/17/18 www.restek.com

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: **31003 / Acid Surrogate Standard Mix (3/90)** Restek Corporation 110 Benner Circle Bellefonte, Pa. 16823 814-353-1300 814-353-1309 800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US) www.restek.com 9 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:	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. 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

Target Organs:

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	99.4
2-chlorophenol-d4	93951-73-6		0.15
2,4,6-tribromophenol	118-79-6	204-278-6	0.15
phenol-d6	13127-88-3	236-063-8	0.15
2-fluorophenol	367-12-4	206-681-2	0.15

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	
Fire Fighting Methods and Protection: Hazardous Combustion Products:	heavier than air and may travel to a source of ignition and flash back. 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	
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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	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		
Personal Protection:							
Engineering Measures:			Local exhaust ventilation is recommended when generating excessive levels of				
Respiratory Protection: vapours from handling or thermal processing. Respiratory Protection: Respiratory protection may be required to avoid overexposur product. General or local exhaust ventilation is the preferred Use a respirator if general room ventilation is not available or eliminate symptoms. If an exposure limit is exceeded or if an experiencing symptoms of inhalation overexposure as explain provide respiratory protection.			avoid overexposure when handling this ion is the preferred means of protection. n is not available or sufficient to s exceeded or if an operator is				
Eye Protection:		Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.					
			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:	Liquid
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	64.7 °C at 760 mmHg (HSDB)
Melting Point (°C):	-98 °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
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:	0
Molecular Weight:	32.04
10. STABILITY AND REACTIVITY	
Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.

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

11. TOXICOLOGICAL INFORMATION

Routes of Entry:Inhalation, Skin Contact, Eye Contact, IngestionTarget Organs Potentially Affected By Exposure:Eyes, Central nervous system stimulation, Skin, GI

Tract, Respiratory Tract None Known

Immediate (Acute) Health Effects by Route of Exposure:

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			
Skin Contact:	optic nerve resulting in visual impairment or blindness. Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.			
Eye Contact:	Can cause moderate in	ritation, tearing and reddening, but not likely to		
Ingestion Irritation:		at, and stomach. Can cause abdominal discomfort,		
Ingestion Toxicity:	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 swallowed.			
Long-Term (Chronic) He	ealth Effects:			
Carcinogenicity:		No data.		
Reproductive and Deve	lopmental Toxicity:	No data available to indicate product or any components		
Inhalation:		present at greater than 0.1% may cause birth defects. 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.		
	al Data:			
Component Toxicologic NIOSH:	;ai Data:			
Chemical Name	CAS No.	LD50/LC50		
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h		
Component Carcinogen	ic Data:			
OSHA: Chemical Name	CAS No.			
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 INFO	RMATION			
Overview:		Moderate ecological hazard. This product may be dangerous		
		to plants and/or wildlife.		
Mobility:		No data		
Persistence:				
Bioaccumulation:		No data		
Degradability:		Biodegrades slowly.		
Ecological Toxicity Dat	a:	No data available		

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

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Methanol
UN Number:	UN1230
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Methanol
UN Number:	UN1230
Hazard Class:	3 (6.1)
Packing Group:	II Č

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	67-56-1	Х	Х	-	Х

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	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
2-chlorophenol-d4	93951-73-6	-	-	-	-
2,4,6-tribromophenol	118-79-6	Х	-	-	-
phenol-d6	13127-88-3	-	-	-	-
2-fluorophenol	367-12-4	-	-	-	-

16. OTHER INFORMATION

Prior Version Date: Other Information:	08/13/18 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 products 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.