

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name:

TCI	AME	RICA
SAFE	TY DATA	A SHEET

Hydrogen Chloride - Methanol Reagent (5-10%) [for Esterification]

Product code:	X0041	-
Product use: Restrictions on use:	For laboratory research purposes. Not for drug or household use.	
Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com		Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department: TCI America Environmental Health Safety and Security +1- 503-286-7624
2. HAZARD(S) IDENTIFICATION		
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Inhalation [Category 4] Eye Damage/Irritation [Category 1] Sensitization - Respiratory [Category 1] Toxic to Reproduction [Category 1B] Specific Target Organ Toxicity (Single Exposure) [Catego Specific Target Organ Toxicity (Single Exposure) [Catego Specific Target Organ Toxicity (Repeated Exposure) [Catego Flammable Liquids [Category 2] Aquatic Hazard (Acute) [Category 2] Skin Corrosion/Irritation [Category 1B]	ry 3]
Signal word:	Danger!	
Hazard Statement(s):	Highly flammable liquid and vapor Harmful if inhaled Causes severe skin burns and eye damage May cause allergy or asthma symptoms or breathing diffic May damage fertility or the unborn child Toxic to aquatic life Causes damage to: Respiratory System Visual System Co May cause respiratory irritation. May cause drowsiness or Causes damage to organs through prolonged or repeated System Central Nervous System	entral Nervous System dizziness.

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear respiratory protection. Wear protective gloves, protective clothing, face protection.

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled:

[Response]

[Storage] [Disposal]	 Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. If exposed: Call a poison center or doctor. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).
Hazards not otherwise classified: [HNOC]	May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN:	Mixture Hydrogen Chloride - Methanol Reagent (5-10%) [for Esterification] 7647-01-0
Chemical Formula:	
Hazardous ingredient(s):	Hydrogen Chloride (5-10%) 7647-01-0 Methanol (90-95%) 67-56-1

4. FIRST-AID MEASURES

Description of first aid measures			
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately c		
Skin contact:	POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.		
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER or doctor/physician.		
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.		
Symptoms/effects:			
Acute:	Dizziness. Pain. Redness. Drowsiness.		
Delayed:	May have effects on the respiratory tract.		
Indication of any immediate medical	attention:		
Not available.			
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Notes to physician:
No data available
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water in large amounts, carbon dioxide.
Hazardous combustion products: Other specific hazards:	None Closed containers may explode from heat of a fire.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions:	Prevent product from entering drains.
Methods and materials for containment	Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In
and cleaning up:	case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be
	promptly disposed of, in accordance with appropriate laws and regulations.
Prevention of secondary hazards:	Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE	
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent
	generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take
	measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling.
	Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.
	Avoid all contact!
Conditions for safe storage, including) any incompatibilities
Storage conditions:	Keep container tightly closed. Store in an explosion-poof refregerator.
	Store locked up.
	Store away from incompatible materials such as oxidizing agents. Heat-sensitive
Packaging material:	Comply with laws.
r aonaging material.	
8. EXPOSURE CONTROLS / PER	SONAL PROTECTION
Exposure limits:	(Methanol)
Exposure mints.	ACGIH TLV(TWA):200 ppm (skin)
	ACGIH TLV(STEL):250 ppm (skin)
	OSHA PEL(TWA):200 ppm
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed
	system or local exhaust. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.

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	Use respirators approved under appropriate government standards and follow local and national
	regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Very pale yellow Characteristic No data available No data available	,	
Melting point/freezing point:	No data available (Methanol) -98°C	pH:	No data available
Boiling point/range:	No data available (Methanol) 64°C	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	No data available
Relative density:	No data available	Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available	,	
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Log Pow:	(Methanol) -0.82/-0.66	,	
Flash point:	No data available (Methanol) 12°C	Autoignition temperature:	No data available
Flammability(solid, gas):	No data available	Flammability or explosive limits:	
		Lower:	7.3%
		Upper:	36.5%
Solubility(ies):			
[Water]	No data available		
[Other solvents]	No data available		

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products:

No data available Stable under proper conditions. No special reactivity has been reported. Spark, Open flame, Static discharge Oxidizing agents, Strong bases, Reducing agents, Metals, Combustibles Carbon monoxide, carbon dioxide etc 11. TOXICOLOGICAL INFORMATION

Acute Toxic No data ava						
Skin corros No data ava	ion/irritation: ilable					
Serious eye No data ava	e damage/irritation: ilable					
Respiratory No data ava	r or skin sensitization: ilable					
Germ cell n No data ava	nutagenicity: ilable					
Carcinogen No data ava						
IARC:	Group 3 (Not classifiable as carcinogenic to humans).	NTP:	No data available	OSHA	No data available	
Reproducti No data ava						
	n(s): damage to: Respiratory System Visi use respiratory irritation.	ual System C	Central Nervous System			

May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure: Respiratory System Visual System Central Nervous System

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF): Mobility in soil	No data available
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³ /mol):	No data available

13. DISPOSAL CONSIDERATIONS Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil. Disposal of container: Dispose of as unused product. Do not re-use empty containers. Other considerations: Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US) UN number: UN2924	Proper Shipping Name: Flammable liquids, corrosive, n.o.s	Class or Division: 3 Flammable liquid	Subrisk(s): 8 Corrosive material	Packing Group: II			
IATA_ UN number: UN2924	Proper Shipping Name: Flammable liquid, corrosive, n.o.s	Class or Division : 3 Flammable liquid	Subrisk(s): 8 Corrosive material	Packing Group: II			
IMDG UN UN2924 numb er:	Proper Shipping Name: Flammable liquid, corrosive, n.o.s	Class or Division: 3 Flammable liquid	Subrisk(s): 8 Corrosive material	Packing Group: II			
EmS number:	F-E, S-C						
15. REGULATORY INFORMATION							
Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.							
US Federal Regulations							
CERCLA Hazardous substance and Reportable Quantity: SARA 313: Listed							
SARA 313. SARA 302:	Listed						
State Regulations	N						
Massachusetts	Listed						
New Jersey	Listed						
Pennsylvania	Listed						

Other Information	<u>n</u>		HMIS Classification:	
Health:	3		Health:	3
Flammability:	3		Flammability:	3
Instability:	0		Physical:	0
International Inve Canada: DSL EC-No:	entories_	On DSL 231-595-7		

Not Listed

16. OTHER INFORMATION

Revision date: 07/06/2018

California Proposition 65:

Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.