

## Material Safety Data Sheet (MSDS)

<b>Section 1: Chemical Product and Company Identification</b>	
<b>Product Name</b>	Mixed Monohydric Alcohols Frother
<b>Chemical Formula</b>	R-OH ( R- Alkane)
<b>Company Name</b>	CAMACHEM (Part of CAMAL Group) 3F Jinlong East Beijing Station Road Chaoyang District, Beijing, China
<b>Contact</b>	<a href="mailto:sales@camachem.com">sales@camachem.com</a>
<b>Company Website</b>	<a href="http://www.camachem.com">www.camachem.com</a>
<b>Section 2: Composition and Information on Ingredients</b>	
<b>Name</b>	<b>% by Weight</b>
C <sub>1-4</sub> Alcohol	0-5 %
C <sub>4-8</sub> Alcohol	30-55 %
Above C <sub>8</sub> Alcohol	40-65%
<b>Section 3: Hazards Identification</b>	
<b>Potential Acute Health Effects:</b>	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).
<b>Potential Chronic Health Effects:</b>	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.
<b>Section 4: First Aid Measures</b>	
<b>Eye Contact:</b>	Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.
<b>Skin Contact:</b>	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds,

	crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
<b>Serious Skin Contact:</b>	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
<b>Inhalation:</b>	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
<b>Serious Inhalation:</b>	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
<b>Ingestion:</b>	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
<b>Serious Ingestion:</b>	Not available.
<b>Section 5: Fire and Explosion Data</b>	
<b>Flammability of the Product:</b>	Combustible.
<b>Auto-Ignition Temperature:</b>	Not available.
<b>Flash Points:</b>	70°C closed cup.
<b>Flammable Limits:</b>	Not available.
<b>Products of Combustion:</b>	Not available.
<b>Fire Hazards in Presence of Various Substances:</b>	Flammable in presence of open flames and sparks, of heat.
<b>Explosion Hazards in Presence of Various Substances:</b>	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
<b>Fire Fighting Media and Instructions:</b>	Use dry chemical powder extinguishers, especially near electrical equipment. Carbon dioxide, alcohol-resistant foams, or water spray may also be used. Water spray may be useful to keep containers cool near a fire.
<b>Special Remarks on Fire Hazards:</b>	Not available.
<b>Special Remarks on Explosion Hazards:</b>	Not available.
<b>Section 6: Accidental Release Measures</b>	
<b>Small Spill:</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
<b>Large Spill:</b>	Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk.

## Section 7: Handling and Storage

<b>Precautions:</b>	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapour/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.
<b>Storage:</b>	Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, wellventilated place. Ground all equipment containing material. Keep container dry. Keep in a cool place.

## Section 8: Exposure Controls/Personal Protection

<b>Engineering Controls:</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
<b>Personal Protection:</b>	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
<b>Personal Protection in Case of a Large Spill:</b>	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Exposure Limits:</b>	Not available.

## Section 9: Physical and Chemical Properties

<b>Physical state and appearance:</b>	Oil Liquid.
<b>Odor:</b>	Not available.
<b>Taste:</b>	Not available.
<b>Molecular Weight:</b>	Not available.
<b>Color:</b>	Yellow.
<b>pH (1% soln/water):</b>	Not applicable.
<b>Boiling Point:</b>	Not available.
<b>Melting Point:</b>	Not available.

<b>Critical Temperature:</b>	Not available.
<b>Specific Gravity:</b>	0.87-0.90
<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>Volatility:</b>	Not available.
<b>Odor Threshold:</b>	Not available.
<b>Water/Oil Dist. Coeff.:</b>	Not available.
<b>Ionicity (in Water):</b>	Not available.
<b>Dispersion Properties:</b>	Not available.
<b>Solubility:</b>	Insoluble in cold water.

### Section 10: Stability and Reactivity Data

<b>Stability:</b>	Stable, does not react with water.
<b>Instability Temperature:</b>	Not available.
<b>Conditions of Instability:</b>	Heat, flames and all sources of ignition or static.
<b>Incompatibility with various substances:</b>	Oxidising agents e.g., nitrates, perchlorates, peroxides.
<b>Hazardous decomposition products:</b>	None reported. Incomplete combustion will liberate carbon monoxide and carbon dioxide.
<b>Polymerization:</b>	Does not occur.

### Section 11: Toxicological Information

<b>Routes of Entry:</b>	Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals:</b>	Acute oral toxicity (LD50): Not available. Acute dermal toxicity (LD50): Not available.
<b>Chronic Effects on Humans:</b>	Not available.
<b>Other Toxic Effects on Humans:</b>	Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).
<b>Special Remarks on Toxicity to Animals:</b>	Not available.
<b>Special Remarks on Chronic Effects on Humans:</b>	Not available.
<b>Special Remarks on other Toxic Effects on Humans:</b>	Not available.

### Section 12: Ecological Information

<b>Ecotoxicity:</b>	Not available.
<b>BOD5 and COD:</b>	Not available.
<b>Products of Biodegradation:</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation:</b>	The products of degradation are more toxic.
<b>Special Remarks on the Products of Biodegradation:</b>	Not available.

<b>Section 13: Disposal Considerations</b>	
<b>Disposal methods:</b>	Only under conditions approved by local authorities. See also Section 6.
<b>Disposal of packaging:</b>	Empty containers may contain residues which are flammable and hazardous and are subject to controlled disposal. Always obey hazard warnings.
<b>Section 14: Transport Information</b>	
<b>IMDG:</b>	Not regulated.
<b>Section 15: Other Regulatory Information</b>	
<b>Federal and State Regulations:</b>	TSCA 8(b) inventory: Not available.
<b>Other Regulations:</b>	OSHA: Not available.
<b>Other Classifications:</b>	Not available.
<b>WHMIS (Canada):</b>	Not available.
<b>Protective Equipment:</b>	Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.
<b>Section 16: Other Information</b>	
<b>References:</b>	None.
<b>Other Special Considerations:</b>	None.
<b>Created:</b>	08/01/2021 10:01 PM
<b>Last Updated:</b>	08/01/2021 10:31 PM

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.*



CAMACHEM (Part of CAMAL Group), 3F Jinlong East Beijing Station Road  
Chaoyang District, Beijing, China  
[www.camachem.com](http://www.camachem.com)