

MATERIAL SAFETY DATA SHEET

MIKE-O-CUT

I. PRODUCT AND MANUFACTURER INFORMATION	
Product name	MIKE-O-CUT, Tapping & Drilling Fluid
Chemical name	NA
Shipping Name (4oz, 16oz, and 1 gal sizes)	Consumer Commodity, ORM-D
Shipping Name (5 gal and 55 gal sizes)	Trichloroethylene Solution, 6.1, UN 1710, PG III
CAS number	NE
Manufacturer	Ashburn Chemical Technologies 2911 Rusk Houston, TX 77003
Emergency phone number	713-425-3000
MSDS prepared by	
Date of last revision	11/12/04

II. HAZARDOUS INGREDIENTS					
HAZARDOUS COMPONENT	CAS NUMBER	% Optional	OSHA PEL	ACGIH TLV	CHEMICAL AND/OR COMMON NAME(S)
Trichloroethylene	79-01-6		100ppm	50ppm	
Petroleum Hydrocarbon	64742-52-5		NE	5 mg/m ³	

III. PHYSICAL AND CHEMICAL CHARACTERISTICS	
Boiling point @ 760 mm Hg	>189 °F
Vapor pressure at 20 °C	60 mmHg
Vapor density (air = 1)	< 5
Solubility in water	.1g/100g
Appearance and odor	Clear Liquid, solvent odor
Specific gravity (H ₂ O = 1.0)	1.44
Melting point	NA
Evaporation rate (butyl acetate = 1)	>.35

IV. FIRE AND EXPLOSION HAZARD DATA			
Combustible/Not combustible	Not combustible		
Flammable/Not flammable	Not flammable		
Pyrophoric/Not pyrophoric	Not pyrophoric		
Explosive/Not explosive	Not explosive		
Flash point (test method)	None (TCC)		
Flammable limits (in Air % by volume)		LFL: 8% @ 100°C	UFL: 45% @ 100°C
Extinguishing media	Water Spray, Foam or CO ₂		
Special fire-fighting procedures or equipment	Treat as hot oil. Fire Fighters should wear NIOSH approved self-contained breathing apparatus		
Unusual fire and explosion hazards	None		

V. REACTIVITY DATA	
Material is stable/unstable	Stable.
Conditions to avoid	Avoid direct sunlight, flames, and sparks.
Incompatibility (materials to avoid)	Avoid contact with strong oxidizers and bases
Hazardous decomposition or by-products	Thermal decomposition may cause asphyxiants including

	hydrogen chloride and trace amounts of chlorine and phosgene.
Hazardous polymerization will/will not occur	Will not occur.

VI. HEALTH HAZARD DATA	
Note: data applies to the concentrate. Health hazard potential is reduced at use concentrations, if applicable.	
Threshold Limit Value	TLV for this product not established. Refer to the hazardous materials list for TLV of individual ingredients.
Primary route(s) of entry	Inhalation, Skin Contact
Known Hazards Under 29 CFR 1910.1200	
Mutagenic (genetic defects)	NO
Reproductive	NO
Systemic	NO
Teratogenic (birth defects)	NO
Carcinogen listed in:	
NTP (National Toxicology Program)	NO
IARC Monographs	YES
OSHA	NO
Signs and symptoms of exposure	
Inhalation	Inhalation of accumulated vapors can cause unconsciousness and death. Excessive exposure may cause irritation to respiratory tract.
Skin contact	Prolonged exposure may cause skin irritation, drying or flaking of skin. May be absorbed through skin and may cause numbness in fingers immersed in liquid.
Eye contact	May cause pain and eye irritation. Corneal injury is unlikely
Ingestion	Single dose oral toxicity is considered to be low. Small amounts swallowed incidental to normal handling are not likely to cause injury. However, swallowing large amounts may cause serious injury or death
Emergency first aid procedures	
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Call physician immediately.
Skin contact	Wash off thoroughly with soap and water. Remove contaminated clothing and launder before re-use. Discard contaminated leather gloves and shoes.
Eye contact	Flush with water for 15 minutes. Seek medical attention if irritation persists.
Ingestion	Do Not induce vomiting. Seek medical attention immediately.
Medical conditions generally aggravated by exposure	Persons with pre-existing skin disorders should avoid contact with this product.
Notes to physician	Because rapid absorption may occur through lungs if aspirated and cause systemic effects, the decision of whether or not to induce vomiting should be made by a physician. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE	
Steps to take if released or spilled	For large spills: evacuate spill area and contain liquid. Transfer to properly labeled closed metal containers. For small spills: mop or soak up immediately. Place in properly labeled containers.
Waste disposal method	Use approved treatment, transporters and disposal sites in accordance with local, state and federal laws. Do not flush to storm or sanitary sewer.
Precautions for handling and storing	Launder contaminated clothing before reuse. Use as directed. Normal precautions common to good manufacturing should be followed in storage and handling.
Other precautions	For industrial use only. Affix warning labels on containers in accordance with 29 CFR 1910.1200

Hazard ratings	NFPA	HMIS
Health	2	NR
Flammability	1	NR
Reactivity	0	NR
Personal protection		

VIII. CONTROL MEASURES	
Protective gloves (type and material)	Use chemical-resistant gloves in situations of overexposure.
Eye protection	Wear safety glass or goggles.
Other protective clothing or equipment	Chemical resistant clothing. Selection of specific items such as apron and boots will depend on the operation.
Respiratory protection (specify type)	Not needed under recommended conditions.
Ventilation and conditions	
Local	Yes
Mechanical	Recommended to control airborne levels to below the exposure guidelines. Lethal concentrations may exist in areas with poor ventilation.
Other	None
Work/hygienic practices	Do not wear contaminated clothing. Wash hands prior to eating, drinking, smoking or use of restroom and when leaving work.

IX. ADDITIONAL REGULATORY INFORMATION	
SARA hazard category (Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III))	Immediate (acute) health hazard, delayed (chronic) health hazard
Toxic chemical(s) subject to the supplier notification requirements of section 313 of the Superfund Amendment and Reauthorization Act of 1986 (SARA) and the requirements of 40 CFR part 372	Trichloroethylene (CAS# 79-01-6)
Ingredient(s) regulated under the Clean Air Act Section 112 hazardous air pollutants and subject to all reporting requirements of CERCLA (Superfund)	Trichloroethylene (CAS# 79-01-6)
California Proposition 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986:	Warning: This product contains a chemical known to the State of California to cause cancer.

NA – not applicable NR – not reported ND – not determined NE – not established UN – unknown

The information presented in this MSDS has been compiled from sources deemed reliable. This MSDS is presented in good faith and believed to be accurate as of the effective date shown above. No warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another. It is the responsibility of the buyer to insure compliance with federal, state, provincial and local laws and regulations.