

		MATERIAL SAFETY DATA SHEET				
		SECTION 1 - PRODUCT SOURCE AND IDENTITY				
Supplier identity and address Fronius USA, LLC 10421 Citation Drive Suite 1100 Brighton, MI 48116		Product description:		Date: Jan. 8, 2007		
		Name: TransCut Liquid				
		Purpose: Operating agent for Fronius plasma cutting system.				
		Part No. 40,0009,0092		MSDS code: Fronius TCL		
		Emergency phone:		810-220-4414		
		Product information:		810-220-4414		
SECTION 2 - SHIPPING CLASSIFICATION						
Proper Shipping Name, Hazard Class, UN/NA Number Packing Group, Emergency Response Guide Number						
Aerosols, flammable, 2.1, UN1950 (Ethyl alcohol)						
ERG 128						
Labels required per 49 CFR 172.101: 2.1						
Size for "Limited quantity" per 49 CFR 173.150-4, ORM-D 173.306(h): Gross weight of package 66# max.						
Aerosol container must not exceed 1 quart., pressure must not exceed 170 psig @70°F						
See 173.306(h) for ORM-D details.						
Reportable Quantity ("RQ") per 49 CFR 172.101: None, or not possible in one non bulk container						
SECTION 3- SAFETY RATINGS AND HAZARDOUS INGREDIENT INFORMATION						
Reporting required by Title III Sec 313, 40 CFR 372, 29 CFR 1910.1200					Exposure Limit Values	
CAS#	313, dm	Material or Component	%	RQ#	TWA	STEL
64-17-5	No	Ethanol	10-25	None	1000 ppm	
78-93-3	Yes,1	Methyl ethyl ketone (MEK)	<1	5000	200 ppm	300 ppm
dm = "de minimis", the lowest percent in discharge which must be reported.						
Other than those listed, there are no ingredients with ACGIH exposure limits present at 1% or more, and no known carcinogens present at 0.1% or more. Components listed in Title III, Sec. 313 (EPCRA) are indicated by "Yes".						
Note: The purpose of this MSDS is to provide safe handling, shipping and disposal information for users of the product. It is not intended to, nor does it, provide complete or extensive toxicological data on the product or its components. Users who require this information are referred to primary suppliers of the ingredients of interest.						
Emergency overview: Keep out of eyes and off of skin. Can irritate eyes and may irritate skin with extended or repeated exposure. Flammable. Can form explosive vapors. Contents under pressure. Keep away from direct sun exposures and temperatures above 122°F (50°C).						
Hazard Categories:		Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8, OSHA 29 CFR 1910.1200 and SARA 302/311/312/313.
Immediate		Yes	Yes	No	No	
Delayed		No	XXX	XXX	XXX	
HMIS Hazard ratings: Health 1 Fire 3* Instability 0 Other None *= subject to adjustment.						
NFPA 704 Hazard Ratings: Health 1 Flammability 3* Reactivity 0 Special NA						
Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4						
Note: HMIS and NFPA ratings are subjective evaluations of hazards and can differ between preparers. They are intended and useful only as a rapid approximation of the hazards rated.						
Threshold limit value: Not established on product.						
TOSCA Status: All ingredients listed				CERCLA RQ: See Sec 2.		
California Prop. 65:		Ethanol	Ingredients on cancer lists: None			
Reproductive implications:		None				
SECTION 4 - PHYSICAL AND CHEMICAL PROPERTIES						
Appearance:		Water white liquid		Flash point deg. F (PMCT): To be determined		
Odor:		Slight, alcoholic		Initial boiling point deg. C: Not determined		
Specific gravity:		0.96 approx. for liquid portion.		Vapor pressure 20 deg C: Not determined		
pH reaction:		7.8		Freezing point deg. C: Not determined		
% phosphorous:		None		Solubility in water: Liquid Yes; Gas No.		
VOC Content:		240 g/l approx.				
California Rule 102 (66):		Contains no photo chemically active materials.				

SECTION 5 - SAFE HANDLING AND STORAGE

General Neutral water based solution. Store containers in upright position. Keep away from children. Warm vapors may be ignitable or explosive. Use according to directions. Keep out of eyes and off of skin. Do not store in direct sunlight or above 122°F (50°C). Do not discard into fire, even when empty.

Protective equipment

Eyes Safety glasses or goggles should be worn if there is possibility of eye contact.

Skin Impermeable gloves such as rubber, PVC or neoprene are recommended.

Respiratory protection None normally required.

Ventilation Avoid accumulating vapors. Keep away from ignition sources.

Other Local ventilation may be necessary for safe use.

SECTION 6- HEALTH SAFETY DATA

Effects of acute or chronic over exposure

Eyes Solution is irritating to eyes. No chronic effects known.

Skin Can cause irritation from repeated exposure.

Inhalation Over exposure can cause dizziness and symptoms of intoxication.

Ingestion Not safe to drink. Cannot be made harmless. Causes toxic reaction and intoxication.

SECTION 7 - PHYSICAL STABILITY AND REACTIVITY DATA

Explosive limits

Flash point: See Sec 4

Lower Not det. Upper Not determined.

Conditions to avoid: Vapors may be ignitable or explosive.

Chemical stability Stable

Hazardous decomposition products: None.

Hazardous polymerization

Cannot occur

Incompatibility: None known.

SECTION 8- EMERGENCY RESPONSE PROCEDURES

Fire	Extinguishing media	Dry powder, fog, water mist may help.
	Special procedures	Contents are under pressure and the containers may leak or explode if heated in a fire.
	Unusual hazards	Flammable vapors formed on heating.
First Aid	Eyes	Flush with water for at least 15 min. Seek medical attention if pain persists.
	Skin	Wash exposed skin with soap and water until gone. Remove affected clothes rinse off product and wash clothes before reuse.
	Inhalation	If affected, remove individual to fresh air.
	Ingestion	Dilute by giving large amounts of milk or water. Get medical attention immediately. Do not induce vomiting.
Spills	Small / large spill	Remove unnecessary personnel from spill area.
	Eliminate all sources of ignition. Vacuum or mop up as much as possible. Use spark proof equipment. Small amounts may be flushed to drain. Comply with federal, state and local regulations on reporting spills. Keep out of waterways and storm sewers.	

Product as made has the characteristic of ignitability, like " Unlisted Hazardous Waste D001", RQ 100#.

Information presented herein has been compiled from sources considered to be accurate and reliable, but is not guaranteed to be so. Since conditions of use are beyond our control we make no warranties, expressed or implied.

MSDS prepared by: R.N. Miller 1-800-342-3577