



Safety Data Sheet

MKCLN1- MEK SOLVENT 1 GAL.

Section 1. Identification

Product Identifier MKCLN1- MEK SOLVENT 1 GAL.
Synonyms MEK Cleaning Solvent DOD
Manufacture Stock Numbers N/A

Recommended use MEK based ink removal and cleaning
Uses advised against N/A

Manufacturer Contact
Address ZANASI USA
9490 Hemlock Lane North
Maple Grove, MN, 55369
HENNEPIN

Phone
(763) 593-1907

Emergency Phone Fax
(800) 424-9300 (763) 593-1941
CHEMTREC 24
HOUR ER LINE

Section 2. Hazards Identification

Classification EYE DAMAGE/IRRITATION - Category 2A
FLAMMABLE LIQUIDS - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3

Signal Word Danger

Pictogram



Hazard Statements Causes serious eye irritation
May cause respiratory irritation

Precautionary Statements
Response

Call a poison center/doctor/ ... /if you feel unwell.
If eye irritation persists: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact

	<p>lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use ... to extinguish.</p>
Prevention	<p>Avoid breathing dust/fume/gas/mist/ vapors/spray. Ground/bond container and receiving equipment. Keep away from heat. Keep container tightly closed. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/.../equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash ...thoroughly after handling. Wear eye protection/face protection. Wear protective gloves/eye protection/face protection</p>
Storage	<p>Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.</p>
Disposal	<p>Dispose of contents/container to ...</p>
Ingredients of unknown toxicity	<p>0%</p>
Hazards not Otherwise Classified	<p>Eye Contact: Vapors are irritating to the eyes. Splashes can produce painful irritation and eye damage. Skin Contact: Skin contact results in loss of natural oils and often results in a characteristic dermatitis. Symptoms include redness, itching, and pain. May be absorbed through the skin with possible systemic effects. May cause cyanosis of the extremities. Ingestion: Ingestion is considered a medical emergency. Swallowing may cause abdominal spasms and other symptoms that parallel over-exposure from inhalation. Aspiration of material into the lungs can cause chemical pneumonitis, which may be fatal. Inhalation: Inhalation of the vapors may cause irritation of the nose, throat and upper respiratory tract. Symptoms of overexposure may include fatigue, confusion, headache, dizziness, vomiting, breathing difficulties and drowsiness. Peculiar skin sensations (e.g. pins and needles) or numbness may be produced. Very high concentrations may cause central nervous system depression, unconsciousness, and death. Primary Route of Entry: Inhalation, skin absorption, skin contact, and eye contact. Chronic Exposure: Chronic inhalation can cause headache, loss of appetite, and nervousness. Pre-Existing Conditions: Persons with pre-existing skin disorders, eye problems, impaired liver, kidney, blood, or respiratory function may be more susceptible to the effects of this product.</p> <p>No Data Available</p>

Section 3. Ingredients

CAS	Ingredient Name	Weight %
78-93-3	Methyl ethyl ketone	100% - Max

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Eye Contact:	If irritation or redness from exposure to vapors develops, move victim from exposure and into fresh air. For direct contact, flush eyes with clean water. Seek medical help.
In case of skin contact:	In case of contact, flush skin with plenty of water, remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse
In case of inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
In case of ingestion:	Potential for aspiration if swallowed. Get medical aid immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have victim lean forward.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	In case of fire, use carbon dioxide, dry chemical powder or appropriate foam. Water may be ineffective because it will not cool material below its flash point.
Unsuitable Extinguishing Media	N/A
Hazardous Decomposition:	May form toxic materials: carbon dioxide and carbon monoxide, various hydrocarbons, etc.
Fire fighting instructions	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Extremely flammable liquid and vapor. Vapor may cause flash fire. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

Section 6. Accidental Release Measures

Precautions incase of spill:	Stay up wind and away from spill. Keep all sources of ignition and hot metal surfaces away from spill. If spill is indoors, ventilate area of spill. Foam, especially high expansion foam, may be used to sppress vapors. Keep out of drains, sewers and waterways. Use sand or other inert material to dam and contain spill. Do not flush area with water. For small spills, do not flush with water; use absorbent pads. Call spill response team if large spill. Notify appropriate State/Local agencies. If spill in excess of EPA reportable quantity, immediately notify the National Response Center (800-424-8802).
Highway or railway spills:	Call CHEMTREC (800) 424-9300 Cont. U.S. (Collect) (202) 483-7616 from Alaska and Hawaii

Section 7. Handling and Storage

Handling and Storage Precautions:	Keep container tightly closed. Keep containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. Empty containers retain residue (liquid and/or vapor) and can be dangrous. Do not pressurize, cut, weld, solder, braze, drill, grind or expose containers to heat, flame, sparks, or other sources of ignition: They may explode.
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Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Methyl ethyl ketone	200ppm	200ppm	300ppm
Personal Protective Equipment	Goggles, Gloves			
VENTILATION SYSTEM:	A system of local and or general exhaust is recommended to keep employee exposures below the Airborne exposure limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into general work area. Use explosion-proof equipment.			
Respiratory Protection:	Appropriate respiratory protection is required when exposure to airborne contaminant is likely to exceed acceptable limits. Respirators should be selected and used in accordance with OSHA part 1910.134 and manufacturer's recommendations.			
Skin Protection:	Wear impervious protective clothing, including boots, gloves, lab coat, apron or overalls, as appropriate, to prevent skin contact. Check with your safety supplier for the proper chemical-resistant gloves.			
EYE PROTECTION:	Use chemical safety glasses or goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick drench facilities in work area.			

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Clear
Odor	Solvent
Odor Threshold	N/A
Solubility	N/A
Partition coefficient Water/n-octanol	N/A
Viscosity	N/A
Specific Gravity	0.81
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	24
FP Method	N/A
Ph	N/A
Melting Point	N/A
Boiling Point	175
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	5.7
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	78.00
Vapor Density	N/A

Section 10. Stability and Reactivity

Stability:	Unstable [] Stable [X]
Incompatibility:	(Materials to Avoid): This product is incompatible with strong acids or bases, oxidizing agents and selected amines.
Hazardous Decomposition Products:	Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide.
Hazardous polymerization:	Will Not Occur.

Section 11. Toxicological Information

Toxicological Information:	No toxicity studies have been conducted on this product. As with all chemicals for which test data are limited or do not exist, caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.
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Section 12. Ecological Information

Environmental Toxicity:	The Ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. Do not discharge product to the environment.
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Section 13. Disposal

Waste Disposal Method:	Recovered and non-usable material may be regulated as a hazardous waste due to its ignitability and/or its toxic characteristics. It is the responsibility of the user to determine if the material is a RCRA "hazardous waste" at the time of disposal. Transportation, treatment, storage, and disposal of waste material must be conducted in accordance with RCRA regulations. State and/or local regulations may be more restrictive.
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Section 14. Transport Information

UN Number	1193
UN Proper Shipping Name	UN1193, METHYL ETHYL KETONE, CLASS 3, PG II, FLAMMABLE LIQUID
DOT Classification	3
Packing Group	II
Label Required:	Flammable
IATA Regulations:	Proper Shipping Name: UN1193, METHYL ETHYL KETONE, CLASS 3, PG II, FLAMMABLE LIQUID

Section 15. Regulatory Information

HMIS Hazard Rating:	Health- 2; Fire- 3; Reactivity- 0; PPE- Goggles & Shield; Apron; Vent Hood; Proper Gloves; Fire Extinguisher
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Section 16. Other Information

Revision Date

8/18/2014

Disclaimer:

The information accumulated herein is believed to be accurate and represents the best data currently available. It is the user's responsibility to determine suitability of use. No warranty, expressed or implied, is made and ZANASI USA assumes no legal responsibility or liability resulting from its use. Materials comprising <1% by weight, or <0.1% by weight if the chemical is a carcinogen, are not listed herein.