



Safety Data Sheet

Cleaner M

Section 1. Identification

Product Identifier Cleaner M
Synonyms Z101 MEK CLEANER
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 EU additional Hazard Phrases - EUH066
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
Highly flammable liquid and vapor
May cause respiratory irritation; or May cause drowsiness or dizziness
Repeated exposure may cause skin dryness or cracking.

Precautionary Statements

Response	<p>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 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>N/A</p> <p>No Data Available</p>

Section 3. Ingredients

CAS	Ingredient Name	Weight %
64-17-5	ETHANOL	3% - 5%
78-93-3	Methyl ethyl ketone	70% - 100%

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

Section 4. First-Aid Measures

EYE CONTACT	Eye Contact: Flush with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.
SKIN CONTACT	Skin Contact: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician immediately.
INHALATION	Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
INGESTION:	Inducing vomiting should only be performed under the direct supervision of medical personnel. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Note to physician:	Treat symptomatically and supportively

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Alcohol foam, CO2, dry chemical, water fog. Do not use a direct stream of water. Product can float and can be reignited on the surface of the water.
Unsuitable Extinguishing Media	N/A
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

Spill Procedure:	Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (i.e., vermiculite, dry sand, and earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. DO NOT FLUSH TO SEWER! If leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.
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

Storage Precautions:	Store in a cool, dry, well ventilated place, in securely closed original container. Flammable/combustible- keep away from oxidizing agents, heat and flames.
Precautions to be taken in handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tool and explosion proof equipment. Avoid contact with eyes, skin and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Avoid breathing vapor.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	ETHANOL	1000	1000	N/A
	Methyl ethyl ketone	200ppm	200ppm	300ppm
Personal Protective Equipment	Goggles, 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.			
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.			
RESPIRATORY PROTECTION:	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirement must be followed whenever workplace conditions warrant a respirators use.			
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.			

Section 9. Physical and Chemical Properties

Physical State	LIQUID
Color	CLEAR
Odor	CHARACTERISTIC OF SOLVENT
Odor Threshold	100PPM
Solubility	partially miscible
Partition coefficient Water/n-octanol	1.2-2.0
Viscosity	<1 cP 25°C
Specific Gravity	0.85
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	< 21 °C.
FP Method	N/A
Ph	N/A
Melting Point	N/A
Boiling Point	< 85 °C.
Boiling Range	80-90°C.
LEL	1.8
UEL	11.5
Evaporation Rate	6
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	90-100 mmHg
Vapor Density	2.5

Section 10. Stability and Reactivity

Stability: Stable. Under normal storage conditions, peroxidizable compounds can form and accumulate peroxides which may explode when subjected to heat or shock. This material is most hazardous when peroxide levels are concentrated by distillation of evaporation.

Conditions to Avoid: Heat, flames, sparks, ignition sources and incompatibles.

Section 11. Toxicological Information

TOXICOLOGICAL INFORMATION:

Information on toxicological effects. Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Vapour inhalation may moderately irritate the upper respiratory tract. Contact with skin may cause slight irritation. Ingestion may cause health problems, including stomach pain and stinging, nausea and sickness. This product may have a degreasing action on the skin, producing dryness and chapped skin after repeated exposure. This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, narcosis. ETHANOL LD50 (Oral): 1501 mg/kg Rat LC50 (Inhalation): 5,9 mg/l/6h Rat METHYL ETHYL KETONE LD50 (Oral): 2737 mg/kg Rat LD50 (Dermal): 6480 mg/kg Rabbit LC50 (Inhalation): 23,5 mg/l/8h Rat

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.

Ecological information: Use this product according to good working practices. Avoid littering. Inform the competent authorities if the product reaches waterways, sewers or has contaminated soil or vegetation. Toxicity: Information not available Persistence and degradability: Information not available Bioaccumulative potential: Information not available Mobility in soil: Information not available Results of PBT and vPvB assessment: Information not available Other adverse effects: Information not available

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.

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

Section 15. Regulatory Information

Toxic Substances Chemical Inventory (TSCA): This product (and/or all of its components) is in compliance with USEPA TSCA.

Section 16. Other Information

Revision Date

12/10/2015

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.