



SECTION 1 - CHEMICAL PRODUCT AND COMPANY

INFORMATION PRODUCT NAME: CL-TKE Cleaner

PRODUCT USE: Ink Jet Cleaner

PRODUCT COLOR: Clear

NOT RECOMMENDED FOR: Consumer Use

Manufacturer/Supplier:

PANNIER CORPORATION

207 SANDUSKY STREET

PITTSBURGH, PA 15212-5823 U.S.A.

Emergency Telephone Number: INFOTRAC 1-800-535-5053

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

Danger Highly flammable.

State of matter liquid colourless

Odour mint-like

Potential environmental effects

Environmental precautions Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Ecological information: See chapter 12

Potential health effects

Acute effects

Emergency Overview

Danger Highly flammable.

State of matter liquid colourless

Odour mint-like

Potential environmental effects

Environmental precautions Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Ecological information: See chapter 12

Potential health effects

Acute effects

Emergency Overview

Danger Highly flammable.

Hazard Statements

Highly flammable liquid and vapor

Causes serious eye irritation

State of matter liquid colourless

Odour mint-like

Potential environmental effects

Environmental precautions Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Ecological information: See chapter 12

Potential health effects

Acute effects

Hazard pictograms



SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
butanone; ethyl methyl ketone	78-93-3	99.50
Exposure limit(s): See chapter 8		
Classification and hazard labeling: See chapter 15		

SECTION 4 - FIRST AID MEASURES

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability	
Flash point	-9 °C closed cup 9 °C open cup
Autoignition temperature	515 °C
Explosion limits	
Lower explosion limit:	1.4 %(V)
Upper explosion limit:	11.4 %(V)
Fire/explosion	Vapours may form explosive mixtures with air. Flash back possible over considerable distance.
Hazardous combustion products	Carbon oxides
Suitable extinguishing media	Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO ₂)
Unsuitable extinguishing media	No information available
Protection measures and instructions	Wear self-contained breathing apparatus and protective suit.
Further information	Cool containers / tanks with water spray

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist. Material can create slippery conditions.
Environmental precautions	Should not be released into the environment. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste Exposure controls / personal protection: See chapter 8

SECTION 7 - HANDLING AND STORAGE

Safe handling advice	Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Ensure all equipment is electrically grounded before beginning transfer operations. Take precautionary measures against static discharges.
Advice on protection against fire and explosion	Keep away from heat and sources of ignition. Use explosion-proof equipment.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	Provide sufficient air exchange and/or exhaust in work rooms.
Personal protective equipment	
Eyes	Safety glasses with side-shields
Skin	Protective suit Safety shoes
Inhalation	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	
Hygiene measures	Wash hands before breaks and immediately after handling the product.
Protective measures	Wear suitable protective equipment.
Exposure Guidelines	
Components	Exposure limit(s)
2-BUTANONE	US. ACGIH Threshold Limit Values time weighted average 200 ppm

METHYL ETHYL
KETONE; MEK; 2-
BUTANONE; ETHYL
METHYL KETONE

US. ACGIH Threshold Limit Values Short term exposure limit 300 ppm
US. NIOSH: Pocket Guide to Chemical Hazards Recommended exposure limit (REL): 200 ppm (590 mg/m³)
US. NIOSH: Pocket Guide to Chemical Hazards Short term exposure limit 300 ppm (885 mg/m³)
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Permissible exposure limit 200 ppm (590 mg/m³)
US. OSHA Table Z-1-A (29 CFR 1910.1000) time weighted average 200 ppm (590 mg/m³)
US. OSHA Table Z-1-A (29 CFR 1910.1000) Short term exposure limit 300 ppm (885 mg/m³)
US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants Time Weighted Average (TWA) Permissible Exposure Limit (PEL): 200 ppm (590 mg/m³)
US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants Short term exposure limit 300 ppm (885 mg/m³)
EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents. time weighted average 200 ppm (600 mg/m³)
EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents. Short term exposure limit 300 ppm (900 mg/m³)

PEL= Permissible Exposure Limits
TLV= Threshold Limit Value
EL= Excursion Limit

TW Time Weighted Average (8 hr.)
STEL= Short Term Exposure Limit (15 min.)
WEEL= Workplace Environmental Exposure Level

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

State of matter	liquid
Colour	colourless
Odour	mint-like
Form	liquid
Boiling point/boiling range	79.6 °C
Flash point	-9 °C closed cup 9 °C open cup
Lower explosion limit	1.4 %(V)
Upper explosion limit	11.4 %(V)
Vapour pressure	121.323 hPa at 25 °C
Solubility	partly miscible
Viscosity	0.51 mm ² /s
Viscosity, dynamic	0.41 mPa.s
Melting point/range	-86.3 °C
Density	0.805 g/cm ³
pH	no data available

SECTION 10 - STABILITY AND REACTIVITY

Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	Carbon oxides
Incompatible products	Strong oxidizing agents Incompatible with acids. Halogenated compounds
Hazardous reactions	Hazardous polymerisation does not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 rat: 2,737 mg/kg; literature value
Acute inhalation toxicity	LC50 rat: 23,500 mg/m ³ ; ; 8 h; literature value
Acute dermal toxicity	LD50 rabbit: 6,480 mg/kg; literature value
Skin irritation	rabbit: moderately irritating; literature value
Eye irritation	rabbit: irritating; literature value

SECTION 12 - ECOLOGICAL INFORMATION

CL-TKE Cleaner

Revision 11/22/2015

Ecotoxicity effects

Toxicity to fish LC50 Bluegill sunfish: 4,467 mg/l; 96 h; literature value
 LC50 Poecilia reticulata: 5,700 mg/l; 24 h; literature value
 LC50 Pimephales promelas: 3,200 mg/l; 96 h; literature value

Toxicity to daphnia LC50 Daphnia magna: < 520 mg/l; 48 h; literature value

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Classification US. EPA Resource Conservation and Recovery Act: (RCRA) D List of Characteristic Hazardous Wastes (40 CFR 261.21-24): D001

Waste from residues/used products In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. The product should not be allowed to enter drains, water courses or the soil.

Uncleaned empty packaging Do not burn, or use a cutting torch on the empty drum. Triple rinse containers. Can be offered for recycling, re-conditioning or puncture.

Handling and storage. See chapter 7

Exposure controls/personal protection. See chapter 8

SECTION 14 - TRANSPORT INFORMATION

DOT/49CFR UN 1193 Methyl ethyl ketone, 3, II
 ADR UN 1193 Methyl ethyl ketone, 3, II
 RID UN 1193 METHYL ETHYL KETONE, 3, II
 ADN R UN 1193 METHYL ETHYL KETONE, 3, II
 IMDG UN 1193 METHYL ETHYL KETONE, 3, II; EmS F-E, S-D
 ICAO/IATA UN 1193 Methyl ethyl ketone, 3, II

SECTION 15 - REGULATORY INFORMATION**U.S. Federal Classifications:**

OSHA Hazards Flammable Liquid, Mild eye irritant, Mild respiratory irritant
SARA 311/312 Fire Hazard, Acute Health Hazard

U.S. Regulated Ingredients:

Hazard information reporting US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Components

Butanone **CAS-No** 78-93-3
 US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Components

Butanone **CAS-No.** 78-93-3
 US. New Jersey Community Right-To-Know Survey, Table A: NJ Environmental Hazardous Substances [EHS] List (N.J. Admin. Code Title 7 Section 1G-2.1)

Components

Butanone **CAS-No.** 78-93-3
 US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Components

Butanone **CAS-No.** 78-93-3
 US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Spill reporting

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components

Butanone **CAS** **No.Reportable Quantity**
 78-93-3 5,000 lbs

Health US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

Components

Not listed **CAS-No.**

CL-TKE Cleaner

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Inventories

EU list of existing chemical substances

All chemical constituents are listed in: EU list of existing chemical substances (See chapter 3)

US TSCA Inventory

All chemical constituents are listed in: US TSCA Inventory (See chapter 3)

Australian Inv. of Chem. Substances AICS

All chemical constituents are listed in: Australian Inv. of Chem. Substances AICS (See chapter 3)

Canadian Domestic Substances List DSL

All chemical constituents are listed in: Canadian Domestic Substances List DSL (See chapter 3)

Jap. Inv. of Exist. & New Chemicals ENCS

All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals ENCS (See chapter 3)

Korean Exist. Chemicals List ECL

All chemical constituents are listed in: Korean Exist. Chemicals List ECL (See chapter 3)

Philippines Inv. of Chem. Subst. PICCS

All chemical constituents are listed in: Philippines Inv. of Chem. Subst. PICCS (See chapter 3)

Inv. of Exist. Chem. Substances in China

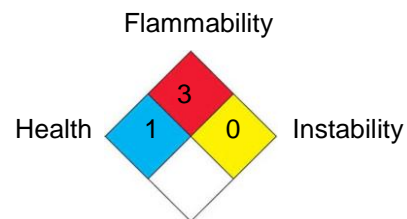
All chemical constituents are listed in: Inv. of Exist. Chem. Substances in China (See chapter 3)

Other international regulations**WHMIS Classification**

B2: Flammable Liquid

SECTION 16 - OTHER INFORMATION**Hazardous Material Information System (HMIS)**

HMIS & NFPA Hazard Rating
Legend
* = Chronic Health Hazard

National Fire Protection Association (NFPA)**DISCLAIMER OF LIABILITY**

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