



SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: CL-EP Cleaner

PRODUCT USE: Solvent

PRODUCT COLOR: Clear

UN/NA NUMBER: UN1987

CAS NUMBER: 64-17-5,67-63-0,108-10-1

Not recommended for: Consumer Use

Manufacturer/Supplier:

PANNIER CORPORATION

207 SANDUSKY STREET

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

- **Emergency Telephone Number:**
- **INFOTRAC 24 hr Telephone Number:** 1-800-535-5053
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SECTION 2 - HAZARDS IDENTIFICATION

HEALTH: 1

FLAMMABILITY: 3

REACTIVITY: 0

TOTAL VOC'S: 6.59 LBS/GAL

GHS HEALTH CLASSIFICATIONS: serious eye damage/irritation (2b) skin irritation (2) target organ toxicity-single exposure (3)

GHS PHYSICAL CLASSIFICATIONS: flammable liquids (2)



GHS SIGNAL WORD: DANGER!

GHS HAZARD STATEMENTS:

- H225: highly flammable liquid and vapour
- h315: causes skin irritation
- h320: causes eye irritation
- h335: may cause respiratory irritation
- h336: may cause drowsiness or dizziness
- h302: harmful if swallowed
- h319: causes serious eye irritation
- h370: causes damage to organs

GHS PRECAUTIONARY STATEMENTS:

- P240: ground and bond container and receiving equipment.
- p337+313: if eye irritation persists get medical advice/attention
- p305+351+338: if in eyes: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- p303+361+353: if on skin (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower
- p370+378: in case of fire: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
- p210: keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- p403+p235+p233: store in a well ventilated place. Keep cool. Keep container tightly closed.
- p243: take action to prevent static discharges.
- p241: use explosion-proof [electrical/ventilating/lighting/.] Equipment.
- P242: use non-sparking tools. P264: wash hands thoroughly after handling.
- P280: wear protective gloves/protective clothing/eye protection/face protection
- p501 dispose of contents/container to an approved waste disposal plant

p233: keep container tightly closed

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
Sda-3c 200 proof	90 %	64-17-5
Isopropanol	9%	67-63-0
Methyl isobutyl ketone	1%	108-10-1

SECTION 4 - FIRST AID MEASURES

BREATHING (INHALATION): Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

SWALLOWING (INGESTION): If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Induce vomiting by giving one teaspoon of syrup of ipecac.

EYES: for eyes, flush immediately with plenty of water for 15 minutes and call a physician.

SKIN (DERMAL): in case of skin contact, wash thoroughly with soap and water.

SECTION 5 - FIRE FIGHTING MEASURES

FLASHPOINT:	55 F
AUTOIGNITION TEMP:	685.4 F
EXTINGUISHING MEDIA:	Water fog or spray, foam, dry powder, carbon dioxide (CO2).
SPECIAL FIRE FIGHTING PROCEDURES:	Static ignition hazard can result from handling and use. Vapors may travel to source of ignition and flash back. Vapors may settle in low or confined spaces.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	May produce a floating fire hazard
PROTECTIVE EQUIPMENT	HMIS personal protection: g: safety glasses, gloves, and vapor respirator.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:	in case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.
WASTE DISPOSAL:	dispose of only in accordance with local, state, and federal regulations

SECTION 7 - HANDLING AND STORAGE

HANDLING/STORAGE: metal containers involved in the transfer of this material should be grounded and bonded. Keep container tightly closed in a cool, dry and well ventilated place.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection

PROTECTIVE CLOTHING: HMIS personal protection: g: safety glasses, gloves, and vapor respirator.

OCCUPATIONAL EXPOSURE LIMITS

ETHYL ALCOHOL	US(OSHA) TWA 1000 PPM / 1900 mg/m3
ISOPROPYL ALCOHOL	US(OSHA) STEL 500 PPM
ISOPROPYL ALCOHOL	US(ACGIH) TWA 200 PPM

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

COLOR:	CLEAR LIQUID
ODOR:	ALCOHOL SCENT
BOILING POINT:	176 F
VAPOR PRESSURE:	44.6 mmHg

VAPOR DENSITY (AIR=1): 1.6 AIR=1
 SPECIFIC GRAVITY:79
 SOLUBILITY IN WATER: COMPLETELY SOLUBLE
 EVAPORATION RATE: N/A EXPECTED TO BE RAPID

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: stable under recommended storage conditions
HAZARDOUS DECOMP.: Carbon oxides are expected to be, under fire conditions, the primary hazardous decomposition products
INCOMPATIBILITY: oxidizers or oxidizing materials.
HAZARDOUS REACTIONS: Vapors may form explosive mixture with air

SECTION 11 - TOXICOLOGICAL INFORMATION

THRESHOLD LIMIT VALUE: ACUTE ORAL TOXICITY

Ethanol: ld50 rat: 7,060 mg/kg; literature value
 Isopropyl alcohol: ld50 rat: 5,045 mg/kg; literature value
 Isopropyl alcohol: ld50 rabbit: 6,410 mg/kg; literature value
 Methyl isobutyl ketone: ld50 rat: 2,080 mg/kg; (literature value)

Acute inhalation toxicity

Ethanol: lc50 rat: 66,000 mg/l; literature value; 4 h
 Isopropyl alcohol: lc50 rat: 16,000 mg/l; literature value; 8 h
 Methyl isobutyl ketone: lc50 rat: 100 g/m³; (literature value)

ACUTE DERMAL TOXICITY

Ethanol: ldlo rabbit: 20,000 mg/kg; literature value
 Isopropyl alcohol: ld50 rabbit: 12,800 mg/kg; literature value
 Methyl isobutyl ketone: ld50 rabbit: 1,600 mg/kg; (literature value)

SKIN IRRITATION

Isopropyl alcohol: rabbit: mild skin irritation; literature value
 Methyl isobutyl ketone: rabbit: mild skin irritation; (literature value)

EYE IRRITATION

Isopropyl alcohol: rabbit: moderate eye irritation; literature value; causes eye irritation.
 Methyl isobutyl ketone: rabbit: moderate eye irritation; ; irritating(literature value)

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND DISTRIBUTION:

TOXICITY TO FISH

ETHANOL: LC50 PIMEPHALES PROMELAS: 15,300 MG/L; 96 H; LITERATURE VALUE
 METHYL ISOBUTYL KETONE:

LC50 PIMEPHALES PROMELAS: 505 - 540 MG/L; 96 H; (LITERATURE VALUE)

METHYL ISOBUTYL KETONE:

LC50 SALMO GAIRDNERI: 600 MG/L; 96 H; (LITERATURE VALUE)

ISOPROPYL ALCOHOL:

LC50 PIMEPHALES PROMELAS: > 6,000 MG/L; 96 H; (LITERATURE VALUE)

TOXICITY TO DAPHNIA

METHYL ISOBUTYL KETONE:

EC50 DAPHNIA MAGNA: 1,000 MG/L; 24 H; (LITERATURE VALUE)

TOXICITY TO ALGAE

METHYL ISOBUTYL KETONE:

EC50 PSEUDOKIRCHNERIELLA SUBCAPITATA: 400 MG/L; 96 H; (LITERATURE VALUE)

METHYL ISOBUTYL KETONE:

EC50 DESMODESMUS SUBSPICATUS (GREEN ALGAE): 980 MG/L; 48 H; (LITERATURE VALUE)

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: dispose of only in accordance with local, state, and federal regulations

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME:

ALCOHOLS, N.O.S.

HAZARD CLASS:

3

UN/NA NUMBER:

UN1987

PACKAGING GROUP :

II

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL CLASSIFICATIONS:

OSHA HAZARDS flammable liquid, mild eye irritant, mild skin irritant

SECTION 302: No chemicals in this material are subject to the reporting requirements of SARA TITLE III, section 302

SECTION 312: acute health hazard chronic health hazard fire hazard

CERCLA

MIBK

CAS NO. 108-10-1

RQ 5000 LBS

SARA SECTION 313: the following components are subject to reporting levels established by SARA TITLE III, SECTION 313

ISOPROPYL ALCOHOL

CAS NO. 67-63-0

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

CAS-NO.

4-METHYLPENTAN-2-ONE

108-10-1

US. MASSACHUSETTS COMMONWEALTH'S RIGHT-TO-KNOW LAW (APPENDIX A TO 105 CODE OF MASSACHUSETTS REGULATIONS SECTION 670.000)

COMPONENTS

CAS-NO.

4-METHYLPENTAN-2-ONE

108-10-1

ETHANOL

64-17-5

PROPAN-2-OL

67-63-0

US. NEW JERSEY WORKER AND COMMUNITY RIGHT-TO-KNOW ACT (NEW JERSEY STATUTE ANNOTATED SECTION 34:5A-5)

COMPONENTS

CAS-NO.

ETHANOL

64-17-5

PROPAN-2-OL

67-63-0

4-METHYLPENTAN-2-ONE 108-10-1

US. PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW LAW (34 PA. CODE CHAP. 301-323)

COMPONENTS CAS-NO.

ETHANOL 64-17-5

PROPAN-2-OL 67-63-0

4-METHYLPENTAN-2-ONE 108-10-1

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 CAS-NO.

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 CAS-NO.

4-METHYLPENTAN-2-ONE 108-10-1

REPORTABLE QUANTITY

5,000 LBS 5,000 LBS 1,000

LBS 0.4 MG/L 70 MG/KG 0.5

MG/KG 50 MG/L 100

LBS 5,000 LBS 1 LBS

HEALTH

US. CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65)

COMPONENTS CAS-NO.

Not listed

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)

SECTION 16 - OTHER INFORMATION

ADDITIONAL: No guarantee or warranty is provided or implied. In this respect, since the use of this product is within the exclusive control of the user, it is the user's responsibility to determine the conditions of safe use. This product's health and safety information is provided to assist our customers in assessing compliance with health, safety and environmental regulations. The information contained herein is based on data available to us, and is believed to be accurate,