

207 Sandusky Street, Pittsburgh, PA 15212-5823 U.S.A. 412.323.4900

www.pannier.com

Material Safety Data Sheet

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24 HOUR EMERGENCY TELEPHONE NUMBERS: INFOTRAC 1-800-535-5053

SECTION 1 IDENTIFICATION OF THE SUBSTANCE

Product Name: CL-TKDK Cleaner

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview

Highly flammable. Danger State of matter liquid colorless Odor 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

Causes eye irritation. **Eyes**

Skin Prolonged or repeated contact may dry skin and cause irritation

Inhalation May cause respiratory tract irritation

Aspiration hazard if swallowed - can enter lungs and cause damage Ingestion

Toxicological information: See chapter 11

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Components CAS-No. Weight % Butanone, ethyl methyl kitone 78-93-3 99.50

Exposure limit(s): See chapter 8

Classification and hazard labeling: See chapter 15

SECTION 4 FIRST AID MEASURES

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician Eye contact

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 vapors. 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

Auto ignition temperature 515°C

Explosion limits Lower explosion limit: 1.4 %(V) Upper explosion limit: 11.4 %(V)

Fire/explosion Vapors may form explosive mixtures with air. Flash back possible over considerable distance

Hazardous combustion products Carbon oxides Water spray Suitable extinguishing media

Alcohol-resistant foam

Dry chemical

Carbon dioxide (CO2)

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 vapors

or spray mist.

Environmental precautions Should not be released into the environment. Prevent further leakage or spillage if safe to do so

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Methods for cleaning upSoak 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. Take

precautionary measures against static discharges. Ensure all equipment is electrically grounded before

beginning transfer operations.

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 Gloves suitable for permanent contact:

Material: butyl-rubber Break through time: 4 H Material thickness: 0.5 mm

Unsuitable gloves:

Material: Polyvinylchloride, leather, nitrile rubber / nitrile latex

Natural rubber / natural latex.

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

US. ACGIH Threshold Limit Values Short term exposure limit 300 ppm

US. NIOSH: Pocket Guide to Chemical Hazards Recommended exposure limit (REL): 300 ppm (590 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): 300 ppm (885 mg/m3)

US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants Ceiling Limit Value:

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)

PEL= Permissible Exposure Limits
TLV= Threshold Limit Value
STEL= Short Term Exposure Limit (15 min.)
EL= Excursion Limit
WEEL= Workplace Environmental Exposure Level

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

ColorcolorlessOdormint-likeFormliquidBoiling point/boiling range79.6 °C

Flash point -9 °C closed cup; 9°C open cup

Lower explosion limit1.4 %(V)Upper explosion limit11.4 %(V)

Vapor pressure 121.323 hPa at 25 °C

Solubility partly miscible
Viscosity 0.51 mm2/s
Viscosity, dynamic 0.41mPa.s
Melting point/range

 Melting point/range
 -86.3 °C

 Density
 0.805 g/cm3

SECTION 10 STABILITY AND REACTIVITY

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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 toxicityAcetone: LD50 rat: 2,737 mg/kg; literature value8Acute inhalation toxicityAcetone: LC50 rat: 23,500 mg/l; literature value; 8 h

Acute dermal toxicity Acetone: LD50 rabbit: 6,480 mg/kg; literature

Skin irritation Acetone rabbit: moderately irritating; literature value

Eye irritation Acetone rabbit: irritating; literature value

Acetone: rabbit: irritating;

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to daphnia Toxicity to algae

Toxicity to fish LC50 Bluegill sunfish: 4,467 mg/l; 96 h; literature value

LC50Poecilia reticulate: 5,700 mg/l; 24 h; literature value LC50 Pimephales promelas: 3,200 mg/l: 96H; literature value EC50 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 / unused 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

ADNR 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

ComponentsCAS-No.Butanone78-93-3

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

ComponentsCAS-No.Butanone78-93-3

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)

ComponentsCAS-No.Butanone78-93-3

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

ComponentsCAS-No.Butanone78-93-3

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US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

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. Reportable Quantity

78-93-3 Butanone 5,000 lbs.

Health

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

Components CAS-No.

Not listed

Inventories

All chemical constituents are listed in: EU list of existing chemical EU list of existing chemical substances

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)

All chemical constituents are listed in: Jap. Inv. of Exist. & New Jap. Inv. of Exist. & New Chemicals ENCS

Chemicals ENCS (See chapter 3)

Korean Exist. Chemicals List ECL All chemical constituents are listed in: Korean Exist. Chemicals List ECL

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

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 D2B: Toxic Material Causing Other Toxic Effects

SECTION 16 OTHER INFORMATION

Hazard Ratings

	Health	Fire	Reactivity Hazard
HMIS	1	3	Ö
NFPA	1	3	0

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