

**MATERIAL SAFETY DATA SHEET**  
**Cortec, Spray Technologies Division**  
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EMERGENCY PHONE NO.: (FOR SPILL, LEAK, FIRE,  
EXPOSURE OR ACCIDENT): 1-800-535-5053

\*\*\*\*\* CITKLEEN 31140 \*\*\*\*\*  
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**SECTION I - PRODUCT IDENTIFICATION**

PRODUCT NAME: Citkleen (aerosol)

PRODUCT DESCRIPTION: A citrus terpene / petroleum hydrocarbon blended cleaner for parts, equipment and work areas. **Extremely flammable – not for use on energized equipment!**

RESTRICTIONS: Non-restricted

**SECTION II - HAZARDOUS INGREDIENTS**

INGREDIENT NAME(S)	CAS#	OCCUPATIONAL EXPOSURE LIMITS	
		TLV OR PEL	ORAL LD-50
n-Heptane	64742-49-0	40 ppm	N.E.
4-Isopropenyl, 1-methylcyclohexene	5989-27-5	N.E.	>5 g/kg (Rat)
Isobutane	75-28-5	800 ppm	N.E.
Propane	74-98-6	1000 ppm	N.E.

Carcinogenic: OSHA = No      NTP = No      IARC = No

**SECTION III - PHYSICAL DATA**

APPEARANCE: Clear, transparent liquid

ODOR: Citrus odor

BOILING POINT:

VAPOR DENSITY:

VAPOR PRESSURE: 2310 mmHg

SOLUBILITY IN WATER:

SPECIFIC GRAVITY: 1.41

EVAPORATION RATE (n-BuAc = 1):

**SECTION IV - FIRE AND EXPLOSION DATA**

HMIS RATING: Health – 1, Fire – 3, Reactivity - 0

FLASH POINT: 60 degrees F. (15 degrees C.) estimated

FLAMMABLE LIMITS: LEL: 1.0      UEL:11.5 (estimation)

EXTINGUISHING MEDIA: Dry chemical, foam, CO2.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents are highly flammable. High temperatures or fire conditions may cause aerosols to over pressurize and burst.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus and protective clothing. Cool fire-exposed aerosols with water fog.

**SECTION V - HEALTH HAZARD DATA**

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact: Flush eyes with water for at least 15 minutes. Consult a physician. Skin Contact: Wash skin with soap and water. If irritation develops or persists, consult a physician.

Inhalation: Remove victim to fresh air, administer oxygen if necessary. If victim has stopped breathing begin CPR. Get immediate medical attention. Ingestion: If material is swallowed, consult a physician immediately. DO NOT induce

vomiting unless physician directed. If spontaneous vomiting occurs, keep victim's head below hips to prevent aspiration of vomitus into lungs.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Pre-existing skin conditions.

PRIMARY ROUTES OF ENTRY: Inhalation, skin and eye contact.

HEALTH HAZARDS (acute and chronic) / EFFECTS OF OVEREXPOSURE: Excessive inhalation of high vapor concentrations may cause dizziness, weakness, fatigue, nausea, possible CNS. Extreme inhalation overexposure may cause asphyxiation.

**SECTION VI - REACTIVITY DATA**

STABILITY: Stable under normal use and storage conditions.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS (under fire conditions): Oxides of carbon and smoke.

INCOMPATIBILITY: Avoid strong oxidizers and acids.

CONDITIONS TO AVOID: Avoid heat, flame, and all potential ignition sources.

**SECTION VII - SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove ignition sources, ventilate area. Take up spill on an inert absorbent material and place into a DOT approved closed-top waste container for disposal.

WASTE DISPOSAL: Dispose of waste or unwanted material in accordance with existing Federal, State and Local environmental regulations. May be reclaimed or incinerated by permitted facilities.

**SECTION VIII - SAFE HANDLING AND USE INFORMATION**

RESPIRATORY PROTECTION: Not normally required; mechanical (general) ventilation is usually adequate. Wear a NIOSH approved organic respirator in nuisance-level vapor concentrations, a positive-pressure, air-supplied respirator in high vapor concentrations or oxygen-deficient atmospheres.

PROTECTIVE GLOVES: PVA or nitrile gloves.

EYE PROTECTION: Safety glasses, splash goggles, face shield.

OTHER PROTECTIVE EQUIPMENT: Eye wash station.

**SECTION IX - SPECIAL PRECAUTIONS AND STORAGE DATA**

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid eye and skin contact. Avoid excessive inhalation of vapors. Use in a well-ventilated environment. Intentional inhalation of contents is harmful and may be fatal.

PRECAUTIONS TO BE TAKEN IN STORING: Store containers below 120°F (48°C), away from heat sources, open flame, out of direct sunlight.

**SECTION X – SHIPPING DATA**

U.N./N.A. NUMBER: UN1950

DOT-IATA SHIPPING NAME: Aerosols, flammable, (Each not exceeding 1L capacity)

DOT HAZARD CLASS: 2.1

DOT REQUIRED LABELS: 2.1 Flammable gas (air shipment only)

DOT EXCEPTION: See code 49, section 172.101, column (8A). Section 173.306(h) permits "limited quantity" materials (inner packagings which do not exceed 1L capacity / 61 cubic inches and for which internal pressures do not exceed 180 psig at 130 degrees F.) meeting section 171.8 definition of "consumer commodity" to be renamed "Consumer commodity" and reclassified ORM-D when shipped via ground mode, domestically.

IMDG SHIPPING MANE: Aerosols, flammable, (Each not ex-

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ceeding 1L capacity)

FREIGHT CLASS: NMFC 48580, Sub 3

LTL: 55

TL: 35

MW: 36

T.S.C.A. STATUS: All components listed

PREPARED BY: Roger Hanson

DATE PREPARED: 04-18-00

SUPERSEDES: 8-19-99

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N.E. = NOT ESTABLISHED

N.A. = NOT APPLICABLE