Product Information

C/D Solv™ RE

Rapidly Evaporating Cleaner/Degreaser

3040

Introduction

C/D-Solv™ RE is a rapidly evaporating alternative to chlorinated solvent cleaning. C/D/ is a rapidly penetrating formulation that minimizes equipment maintenance time. This non-ozone depleting formula does not contain CFCs, 1,1,1-trichloroethane, or other chlorinated solvents. C/D-Solv™ RE is safe on metals and most plastics.

Features / Benefits

Rapidly Evaporating
Safe on Most Plastics
Non-Ozone Depleting
Residue Free
Rapidly Penetrating
Non-Corrosive

Physical Properties	
Boiling Point	149°C / 300°F
Flash Point (TCC)	-17°C / 2°F
Evaporation Rate	NIF
Surface Tension	21
Kauri-Butanol (KB Value)	96.8

Chemical Components

Heptane	(142-82-5)	44-50%
Acetone	(67-64-1)	40-45%
Naphtha C5-C6	(8030-30-6)	10-15%
n-Pentyl acetate	(628-63-7)	1-2%
2-Methyl butyl acetate	(624-41-9)	1-2%
Carbon Dioxide (Aerosol Propellant)	(124-38-9)	1-5%

Plastic Compatibility

Material	Compatibility	Material	Compatibility
ABS	Excellent	**PMMA**	Not Compatible
Nylon 6	Excellent	**POM**	Excellent
Lexan	Not Compatible	**PP**	Excellent
HDPE	Excellent	**PS**	Not Compatible
LDPE	Excellent	**PTFE**	Excellent
Phenolic	Excellent	**PVC**	Excellent

Environmental Policy

Techspray® is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.

Packaging and Availability

C/D Solv™ RE is available in the following sizes:

3040-13S	13 Ounce Aerosol
3040-5G	30 Pounds in Metal

MATERIAL SAFETY DATA SHEET

Finished Product

MSDS Ref. No: 3040-A

C/D Solv RE

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: C/D Solv RE
GENERAL USE: General Purpose Cleaner/Degreaser
PRODUCT DESCRIPTION: C/D Solv RE
PRODUCT CODE: 3040-13S

MANUFACTURER

Techspray, L.P.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS#	EINECS#
Carbon dioxide	1 - 4	124-38-9	
Hexane	10 - 15	110-54-3	203-777-6
n-Heptane	40 - 50	142-82-5	
Acetone	40 - 50	67-64-1	200-662-2
n-Amyl acetate	1 - 3	628-63-7	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Transparent, colorless liquid.

IMMEDIATE CONCERNS: Flammable liquid and vapor.

POTENTIAL HEALTH EFFECTS

EYES: Substance causes substantial eye irritation.

SKIN: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

INGESTION: Harmful if swallowed.

INHALATION: High concentrations in immediate area can displace oxygen and can cause dizziness, unconsciousness, and possibly death with longer exposure. Keep people away from such vapors without self-contained breathing apparatus.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Symptoms of overexposure include: stinging, tearing, redness and pain.

SKIN: Prolonged or exposure may cause skin irritation.

INGESTION: For large amounts; abdominal pain, nausea and vomiting.

INHALATION: High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness).

ACUTE TOXICITY: Overexposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result.

TARGET ORGAN STATEMENT: Prolonged or repeated overexposure may cause central nervous system, kidney, liver, and lung damage.

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4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Aspiration hazard. If swallowed, vomiting may occur spontaneously, but do not induce. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Call a physician immediately.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

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5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: -18°C (0°F)TAG CC

FLAMMABLE LIMITS: 2.0 to 12.0

GENERAL HAZARD: Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point.

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, fumes and oxides of carbon.

EXPLOSION HAZARDS: Vapors may form explosive mixture with air.

Acetone	**TWA**	750	1800	750	1780	NL	NL
	STEL	1000	2400	1000	2380	NL	NL
n-Amyl acetate							

OSHA TABLE COMMENTS:
1. NL = Not Listed

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

SKIN: The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection.

Buna
Butyl
Natural Latex
Neoprene
Solvex

RESPIRATORY: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

WORK HYGIENIC PRACTICES: Wash hands before eating and wash before reuse.

OTHER USE PRECAUTIONS: Emergency shower and eyewash facility should be in close proximity.

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9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Characteristic odor.
APPEARANCE: Clear, Colorless liquid
PERCENT VOLATILE: 100 at 20°C (68°F)
VAPOR DENSITY: 2.1 (Air=1)
BOILING POINT: 149°C (300°F)
FREEZING POINT: Not Determined
MELTING POINT: Not Applicable
SOLUBILITY IN WATER: 32 at 20°C (68°F)
EVAPORATION RATE: <1 (H2O=1)
SPECIFIC GRAVITY: 0.73 @ 25°C/25°C
VISCOSITY: Not Determined
(VOC): 467 g/L (non-exempt VOC)

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10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Heat, flames, ignition sources, and incompatables.

UN/NA NUMBER: N/A
PACKING GROUP: N/A

AIR (ICAO/IATA)
PROPER SHIPPING NAME: CONSUMER COMMODITY ID8000
PRIMARY HAZARD CLASS/DIVISION: 9
UN/NA NUMBER: ID8000
PACKING GROUP: N/A
IATA NOTE: Domestic shipments only. When shipping International contact TechSpray shipping department.

VESSEL (IMO/IMDG)
PROPER SHIPPING NAME: AEROSOLS IN LIMITED QUANTITIES OF CLASS 2
PRIMARY HAZARD CLASS/DIVISION: 2.1
UN/NA NUMBER: 1950
PACKING GROUP: II
IMDG NOTE: Page 3230

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15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: IMMEDIATE / DELAYED

TITLE III NOTES: Not listed as an Extremely Hazardous Substance.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Acetone (67-64-1)

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product is listed on the TSCA Inventory.

CANADA

WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM): This product has been classified according to the hazard criteria of the CPR. This MSDS contains all the information required by the CPR."

WHMIS CLASS: Class B2 - Flammable Liquids. Class D2B - Toxic Materials.

DOMESTIC SUBSTANCE LIST (INVENTORY): All components of this product are listed on the Canadian DSL.

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals known to the State of California to cause cancer.

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16. OTHER INFORMATION

APPROVED BY: Pierce A. Pillon **TITLE:** Chemist

PREPARED BY: Steve Cook