

Material Safety Data Sheet

HC-DCF LOW FLASH™ DRY CLEANING SOLVENT

May 4, 2001

MSDS #: 711630

Revision #: 1

CHEVRON PHILLIPS CHEMICAL COMPANY LP
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The Woodlands, TX 77380

PHONE NUMBERS

EMERGENCY: (800) 231-0623 or
(510) 231-0623 (International)
EMERGENCY RESPONSE (ASIA): 800-AlertSGS
or 800-25378477 or 65-542-9595
TRANSPORTATION (24 HR): CHEMTREC
(800) 424-9300 OR (703) 527-3887
Technical Services: (800) 852-5531
For Additional MSDSs: (800) 852-5530

A. Product Identification

Synonyms: Not Established
Chemical Name: C9-C11 Isoalkanes
Chemical Family: Aliphatic hydrocarbon
Chemical Formula: Mixture
CAS Reg. No.: 68551-16-6
Product No.: Not Established

Product and/or Components Entered on EPA's TSCA Inventory: YES

This product is in U.S. commerce, and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals; hence, it may be subject to applicable TSCA provisions and restrictions.

B. Components

Ingredients	CAS Number	% By Wt.	OSHA PEL	ACGIH TLV
C9-C11 Isoalkanes	68551-16-6	100	NE	NE

See Section F, Recommended Exposure Limits.

C. Personal Protection Information

Ventilation: Use adequate ventilation to control concentration below recommended exposure limits.

Respiratory Protection: Not generally required. For concentrations exceeding the recommended exposure limit, use NIOSH approved air purifying respirator for organic vapors. When entry into or exit from concentrations of unknown exposure, use NIOSH approved self-contained breathing apparatus (SCBA).

Eye Protection: Use safety glasses with side shields. For splash protection, use chemical goggles and face shield.

Skin Protection: Avoid unnecessary skin contamination with material. Use gloves resistant to the material being used. (eg. Nitrile or Viton).

NOTE: Personal protection information shown in Section C is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

D. Handling and Storage Precautions

Avoid contact with eyes, skin or clothing. Avoid breathing vapors, mist, fume or dust. Do not swallow, may be aspirated into lungs. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Wash thoroughly after handling. Launder contaminated clothing before reuse. Use with adequate ventilation.

Keep away from heat, sparks and flame. Store in well-ventilated area. Store in tightly closed container. Bond and ground during transfer.

E. Reactivity Data

Stability: Stable

Conditions to Avoid: Not Applicable

Incompatibility (Materials to Avoid): Oxygen and strong oxidizing agents

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Not Applicable

Hazardous Decomposition Products: Carbon oxides formed when burned.

F. Health Hazard Data

Recommended Exposure Limits:

The Company recommended exposure limit is 100 mg/m³ 8-hour time weighted average (TWA) measured as total hydrocarbon.

Acute Effects of Overexposure:

Eye: May be mildly irritating.

Skin: May be mildly irritating. Dermal LD50 for a similar product is 15.4 g/kg (rabbit).

Inhalation: May cause headache, dizziness, nausea, unconsciousness. The inhalation LC50 for a similar product in rats after a four hour exposure period and a fourteen day post exposure observation period is greater than 3684 ppm.

Ingestion: May irritate the stomach and intestines. The oral LD50 for a similar product in rats is greater than 34.6 g/kg (rat). If swallowed, may be aspirated resulting in inflammation and possible fluid accumulation in the lungs.

Subchronic and Chronic Effects of Overexposure:

Some isoparaffins have produced kidney damage in male rats only. No comparable kidney disease is known to occur in humans.

Other Health Effects:

A Toxicity Study Summary for a similar product, is available upon request.

Health Hazard Categories:

	Animal	Human		Animal	Human
Known Carcinogen	—	—	Toxic	—	—
Suspect Carcinogen	—	—	Corrosive	—	—
Mutagen	—	—	Irritant	—	—
Teratogen	—	—	Target Organ Toxin	X	X
Allergic Sensitizer	—	—	Specify - Lung-Aspiration Hazard		
Highly Toxic	—	—			

First Aid and Emergency Procedures:

Eye: Flush eyes with running water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

Skin: Wash skin with soap and water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

Inhalation: Remove from exposure. If breathing is difficult, give oxygen. If breathing ceases, administer artificial respiration followed by oxygen. Seek immediate medical attention.

Ingestion: Do not induce vomiting. Seek immediate medical attention.

Note to Physician: Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

G. Physical Data

Appearance: Colorless liquid
Odor: Mild
Boiling Point: 320-332F (160-167C)
Vapor Pressure: 0.1 psia @ 77F (25C)
Vapor Density (Air = 1): 2.1
Solubility in Water: Negligible
Specific Gravity (H₂O = 1): 0.746 @ 60/60F (15.6/15.6C)
Percent Volatile by Volume: 100
Evaporation Rate (Butyl Acetate = 1): < 1
Viscosity: 1.12 cSt @ 100F (36C)

H. Fire and Explosion Data

Flash Point (Method Used): 106F (41C) (TCC, ASTM D56)
Flammable Limits (% by Volume in Air): LEL - Not Established
UEL - Not Established

Fire Extinguishing Media: Dry chemical, foam or carbon dioxide (CO₂)

Special Fire Fighting Procedures: Evacuate area of all unnecessary personnel. Use NIOSH approved self-contained breathing apparatus and other protective equipment and/or garments described in Section C if exposure conditions warrant. Shut off source if possible. Water fog or spray may be used to cool exposed containers and equipment. Do not spray water directly on fire - product will float and could be reignited on surface of water.

Fire and Explosion Hazards: Carbon oxides formed when burned. Highly flammable vapors which are heavier than air may accumulate in low areas and/or spread along ground away from handling site. Flash back along vapor trail is possible.

I. Spill, Leak and Disposal Procedures

Precautions Required if Material is Released or Spilled:
Evacuate area of all unnecessary personnel. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Shut off source, if possible and contain spill. Protect from ignition. Keep out of water sources and sewers. Absorb in a dry, inert material (sand, clay, etc). Transfer to disposal drums using non-sparking

equipment.

Waste Disposal (Insure Conformity with all Applicable Disposal Regulations):
Incinerate or place in permitted waste management facility.

J. DOT Transportation

Shipping Name: Hydrocarbons, liquid, n.o.s.
Hazard Class: 3
ID Number: UN3295
Packing Group: III
Marking: Hydrocarbons, liquid, n.o.s., UN 3295
Label: Flammable liquid
Placard: Flammable/3295
Hazardous Substance/RQ: Not applicable
Shipping Description: Hydrocarbons, liquid, n.o.s., 3, UN3295, III
Packaging References: 49 CFR 173.150, 173.203, 173.241

K. RCRA Classification - Unadulterated Product as a Waste

Ignitable (D001)

Prior to disposal, consult your Environmental contact to determine if TCLP (Toxicity Characteristic Leaching Procedure, EPA Test Method 1311) is required. Reference 40 CFR Part 261.

L. Protection Required for Work on Contaminated Equipment

Contact immediate supervisor for specific instructions before work is initiated. Wear protective equipment and/or garments described in Section C if exposure conditions warrant.

M. Hazard Classification

☒ This product meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

☒ Combustible Liquid	☐ Flammable Aerosol	☐ Oxidizer
☐ Compressed Gas	☐ Explosive	☐ Pyrophoric
☐ Flammable Gas	☒ Health Hazard (Section F)	☐ Unstable
☐ Flammable Liquid	☐ Organic Peroxide	☐ Water Reactive
☐ Flammable Solid		

☐ Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

N. Additional Comments

SARA 313

As of the preparation date, this product did not contain a chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

NFPA 704 Hazard Codes - - - - - Signals

Health : 1
Flammability: 2
Reactivity : 0
Special Haz.: -

Least - 0
Slight - 1
Moderate - 2
High - 3
Extreme - 4

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