

Version 1.5 Revision Date 2020-08-11

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product information** 

Product Name : Ecosolv® Dry Cleaning Fluid

Material : 1061821, 1061242, 1079001, 1058748, 1058747, 1061171

Use : Solvent

**Distributor:** : Silver Fern Chemical, Inc.

121 W. De La Guerra Street, Suite B

Santa Barbara, CA 93101

Ph: 866-282-3384

Email: info@silverfernchemical.com Website: www.silverfernchemical.com

24 Hour Emergency Telephone:

Infotrac 1-800-535-5053 (USA & Canada) Outside USA & Canada 1-352-323-3500

Responsible Department : Product Safety and Toxicology Group

E-mail address : SDS@CPChem.com Website : www.CPChem.com

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Classification

: Flammable liquids, Category 4 Aspiration hazard, Category 1

Labeling

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Symbol(s)

Signal Word : Danger

Hazard Statements : H227: Combustible liquid.

H304: May be fatal if swallowed and enters airways.

Precautionary Statements : Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot

surfaces. No smoking.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/ doctor.

P331 Do NOT induce vomiting.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

## **SECTION 3: Composition/information on ingredients**

Synonyms : Isoalkanes

Aliphatic hydrocarbon

Isoparaffins

Molecular formula : Mixture

Component	CAS-No.	Weight %
C12-C14 Isoalkanes	68551-19-9	99.9

## **SECTION 4: First aid measures**

General advice : Move out of dangerous area. Show this material safety data

sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled : If unconscious, place in recovery position and seek medical

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advice. If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution. Remove contact

lenses. Protect unharmed eye. Keep eye wide open while

rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Never give anything by mouth to

an unconscious person. If symptoms persist, call a physician.

Take victim immediately to hospital.

## **SECTION 5: Firefighting measures**

Flash point : 61.1°C (142.0°F)

Method: Tag closed cup

Autoignition temperature : No data available

Suitable extinguishing

media

Carbon dioxide (CO2).

Unsuitable extinguishing

media

: High volume water jet.

Special protective

equipment for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : For safety reasons in case of fire, cans should be stored

separately in closed containments. Use a water spray to cool

fully closed containers.

Fire and explosion

protection

Do not spray on an open flame or any other incandescent

material. Keep away from open flames, hot surfaces and

sources of ignition.

Hazardous decomposition

products

: Carbon Dioxide. Carbon oxides.

#### **SECTION 6: Accidental release measures**

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation.

Environmental precautions : Prevent product from entering drains. Prevent further leakage

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

Methods for cleaning up : Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable,

closed containers for disposal.

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#### **SECTION 7: Handling and storage**

#### Handling

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. For

personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose

of rinse water in accordance with local and national

regulations.

Advice on protection against fire and explosion

Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and

sources of ignition.

#### **Storage**

Requirements for storage areas and containers

: No smoking. Keep in a well-ventilated place. Observe label precautions. Electrical installations / working materials must

comply with the technological safety standards.

Use : Solvent

#### SECTION 8: Exposure controls/personal protection

#### Ingredients with workplace control parameters

Chevron Phillips Chemical Company LP

Components	Basis	Value	Control parameters	Note
C12-C14 Isoalkanes	Manufacturer	TWA	1,200 mg/m3	RCP,

RCP Reciprocal Calculation Procedure

us

05				
Components	Basis	Value	Control parameters	Note

## **Engineering measures**

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### Personal protective equipment

Respiratory protection : Wear a supplied-air NIOSH approved respirator unless

ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure

levels are not known, or other circumstances where airpurifying respirators may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed

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with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant protective clothing. Footwear protecting against chemicals.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

## **SECTION 9: Physical and chemical properties**

## Information on basic physical and chemical properties

**Appearance** 

Form : Liquid Physical state : Liquid

Color : Colorless at room temperature

Odor : mild hydrocarbon

Safety data

Flash point : 61.1°C (142.0°F)

Method: Tag closed cup

Lower explosion limit : 1.1 %(V)

Upper explosion limit : 6.1 %(V)

Oxidizing properties : No

Autoignition temperature : No data available

Thermal decomposition : No data available

Molecular formula : Mixture

Molecular weight : Not applicable

pH : 7

Pour point : No data available

Boiling point/boiling range : 189-208°C (372-406°F)

Vapor pressure : 1.50 MMHG

at 38°C (100°F)

Relative density : 0.76

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at 15.6 °C (60.1 °F)

Water solubility : Negligible

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : 1.55 cSt

at 38°C (100°F)

Relative vapor density : 3

(Air = 1.0)

Evaporation rate : 1

Percent volatile : > 99 %

### **SECTION 10: Stability and reactivity**

**Reactivity** : Stable under recommended storage conditions.

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

## Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerization does not

occur.

Hazardous reactions: Vapors may form explosive mixture with

aır.

Further information: No decomposition if stored and applied as

directed.

**Conditions to avoid** : Heat, flames and sparks.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Thermal decomposition : No data available

**Hazardous decomposition** 

products

: Carbon Dioxide Carbon oxides

Other data : No decomposition if stored and applied as directed.

## **SECTION 11: Toxicological information**

#### **Acute oral toxicity**

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C12-C14 Isoalkanes : LD50: > 5,000 mg/kg

Species: Rat

Sex: male and female

Method: OECD Test Guideline 401

Information given is based on data obtained from similar

substances.

Acute inhalation toxicity

C12-C14 Isoalkanes : LC50: > 5.3 mg/l

Exposure time: 4 h Species: Rat

Sex: male and female Test atmosphere: dust/mist Method: OECD Test Guideline 403

An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable

concentration.

Information given is based on data obtained from similar

substances.

Acute dermal toxicity

C12-C14 Isoalkanes : LD50: > 2,000 mg/kg

Species: Rabbit Sex: male and female

Method: OECD Test Guideline 402

Information given is based on data obtained from similar

substances.

Skin irritation

C12-C14 Isoalkanes : No skin irritation

Information given is based on data obtained from similar

substances.

Eye irritation

C12-C14 Isoalkanes : No eye irritation

Information given is based on data obtained from similar

substances.

Sensitization

C12-C14 Isoalkanes : Did not cause sensitization on laboratory animals.

Information given is based on data obtained from similar

substances.

Repeated dose toxicity

C12-C14 Isoalkanes : Species: Rat, male and female

Sex: male and female

Application Route: oral gavage Dose: 500, 2500, 5000 mg/kg/d

Exposure time: 13 wk
Number of exposures: daily
NOEL: >= 5000 mg/kg/d
Method: OECD Test Guideline 408
No adverse effects expected

Information given is based on data obtained from similar

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substances.

Species: Rat, male and female

Sex: male and female Application Route: Dermal Dose: 165, 330, 495 mg/kg Exposure time: 13 wk Number of exposures: 5 d/wk NOEL: > 495 mg/kg/d Method: OECD Guideline 411 No adverse effects expected

Information given is based on data obtained from similar

substances.

Species: Rat, male and female

Sex: male and female Application Route: Inhalation Dose: 5, 10, 30 mg/L

Exposure time: 90 d
Number of exposures: 6 h/d

NOEL: > 30 mg/l

Method: OECD Test Guideline 413 No adverse effects expected

Information given is based on data obtained from similar

substances.

#### Genotoxicity in vitro

C12-C14 Isoalkanes : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Mouse lymphoma assay

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Sister Chromatid Exchange Assay

Metabolic activation: with and without metabolic activation

Result: negative

## Reproductive toxicity

C12-C14 Isoalkanes : Species: Rat

Sex: male and female

Application Route: oral gavage Dose: 50, 200, 750 mg/kg/bw/d Number of exposures: daily

Test period: 70 d

Method: OECD Test Guideline 416 NOAEL Parent: >750 mg/kg/bw/d NOAEL F1: >750 mg/kg/bw/d No adverse effects expected

Information given is based on data obtained from similar

substances.

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**Aspiration toxicity** : May be fatal if swallowed and enters airways.

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**CMR** effects

C12-C14 Isoalkanes : Carcinogenicity: Not available

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects., In vivo tests did not show

mutagenic effects

Teratogenicity: Animal testing did not show any effects on

fetal development.

Reproductive toxicity: Animal testing did not show any effects

on fertility.

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**Further information** : Solvents may degrease the skin.

## **SECTION 12: Ecological information**

**Ecotoxicity effects** 

**Toxicity to fish** : 1,000 mg/l

Exposure time: 96 h

Species: Salmo gairdneri (Rainbow trout)

Toxicity to daphnia and

other aquatic invertebrates E

Exposure time: 48 h

: 1,000 mg/l

Species: Daphnia magna (Water flea)

Toxicity to algae

C12-C14 Isoalkanes : EL50: > 1,000 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae) Growth inhibition Method: OECD Test Guideline 201 Information given is based on data obtained from similar

substances.

**Toxicity to fish (Chronic toxicity)** 

C12-C14 Isoalkanes : No data available:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

C12-C14 Isoalkanes : No data available

Biodegradability : Expected to be biodegradable

Elimination information (persistence and degradability)

Bioaccumulation

C12-C14 Isoalkanes : The product may be accumulated in organisms.

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Mobility

C12-C14 Isoalkanes : immobile

Results of PBT assessment

C12-C14 Isoalkanes : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological

: No data available

information

**Ecotoxicology Assessment** 

Short-term (acute) aquatic hazard

C12-C14 Isoalkanes : This material is not expected to be harmful to aquatic

organisms.

Long-term (chronic) aquatic hazard

C12-C14 Isoalkanes : This material is not expected to be harmful to aquatic

organisms.

#### **SECTION 13: Disposal considerations**

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : Do not dispose of waste into sewer. Do not contaminate

ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product.

Do not re-use empty containers. Do not burn, or use a cutting

torch on, the empty drum.

## **SECTION 14: Transport information**

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

#### **US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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Testing (ASTM D4206) has shown product does not sustain combustion.

#### IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

#### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

#### ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

# RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

# ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

#### **SECTION 15: Regulatory information**

National	legislation

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Aspiration hazard

CERCLA Reportable

Quantity

: This material does not contain any components with a CERCLA

RQ.

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

302 RQ.

SARA 302 Threshold

Planning Quantity

: This material does not contain any components with a section

302 EHS TPQ.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

304 EHS RQ.

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SARA 313 Components : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

Ozone-Depletion Potential

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR

82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **US State Regulations**

Pennsylvania Right To Know

: No components are subject to the Pennsylvania Right to Know

Act.

**Notification status** 

**TSCA** 

Europe REACH : A substance or substances in this product is not

registered or notified to be registered. Importation or manufacture of this product is still permitted provided that it does not exceed the REACH minimum threshold

quantity of the non-regulated substances.

Switzerland CH INV : On the inventory, or in compliance with the inventory

United States of America (USA) : On or in compliance with the active portion of the

TSCA inventory

Canada DSL : All components of this product are on the Canadian

DSL

Australia AICS : On the inventory, or in compliance with the inventory New Zealand NZIoC : On the inventory, or in compliance with the inventory

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Notification number: HSR002649

Japan ENCS : On the inventory, or in compliance with the inventory Korea KECI : A substance(s) in this product was not registered,

notified to be registered, or exempted from registration by CPChem according to K-REACH regulations.

Importation or manufacture of this product is still permitted provided the Korean Importer of Record has

themselves notified the substance.

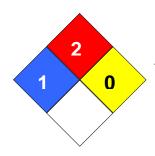
Philippines PICCS : Not in compliance with the inventory

China IECSC : On the inventory, or in compliance with the inventory Taiwan TCSI : On the inventory, or in compliance with the inventory

#### **SECTION 16: Other information**

NFPA Classification : Health Hazard: 1

Fire Hazard: 2 Reactivity Hazard: 0



#### **Further information**

Legacy SDS Number : 711230

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit

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EINECS	European Inventory of Existing	PICCS	Philippines Inventory of
	Chemical Substances		Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		