

SECTION 1. Identification**1.1. Identification**

Product form : Substance
Substance name : DF-2000™ Fluid
CAS No : 64742-48-9
Synonyms : Isoparaffinic Hydrocarbon

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Dry Cleaning Fluid
Restrictions of the substance/mixture : None known

1.3. Details of the supplier of the safety data sheet**Atlanta Branch Office**

Whitaker Oil Company
1557 Marietta Road NW
Atlanta, GA 30318
404-355-8220 (t)
404-355-2436 (f)

Ocoee Branch Office

Whitaker Oil Company
280 Enterprise Street
Ocoee, FL 34761
407-656-0088 (t)
407-877-8335 (f)

Spartanburg Branch Office

Whitaker Chemicals LLC
405 John Dodd Road
Spartanburg, SC 29303
864-578-6968 (t)
864-578-6864 (f)

WEBSITE: www.whitakeroil.com

EMAIL: SDS@whitakeroil.com

1.4. Emergency telephone number
Emergency number : CHEMTREC 800-424-9300

SECTION 2. Hazard(s) Identification**2.1. Classification of the substance or mixture**

GHS-US classification
Flammable liquids Category 4 H227
Aspiration hazard Category 1 H304

Full text of H statements : see section 16

2.2. Label elements

GHS-US labeling
Hazard pictograms (GHS-US)



GHS06

: Danger
: H227 - Combustible liquid
: H304 - May be fatal if swallowed and enters airways
: P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
: P280 - Wear protective gloves, face protection, eye protection
: P301+P310 - If swallowed: Immediately call a POISON CENTER or doctor/physician
: P331 - Do NOT induce vomiting
: P370+P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish
: P403+P235 - Store in a well-ventilated place. Keep cool
: P405 - Store locked up
: P501 - Dispose of contents/container in accordance with local, regional, national, and/or international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

07/11/2016

EN (English US)

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SECTION 3: Composition/Information on ingredients

3.1. Substance

Name	Product Identifier (CAS No)	%	GHS-US classification
Naphtha (Petroleum), Hydrotreated Heavy (Main constituent)	64742-48-9	100	Flam. Liq. 4, H227 Asp. Tox. 1, H304

This material is defined as a complex substance.

Full text of hazard classes and H-statements : see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

- : For excessive inhalation remove to fresh air. If breathing is difficult seek medical attention.
- : Remove contaminated clothing. Wash exposed skin with soap and water. Seek immediate medical attention.
- : Flush with large amounts of cool running water for at least 15 minutes with eyelids forced open. Seek immediate medical attention.
- : Do NOT induce vomiting. Danger of aspiration of vomit into the lungs can cause serious damage and chemical pneumonitis. Seek immediate medical attention.

4.2. Indication of any immediate medical attention and special treatment needed

- : Note to Physician : If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.
- Unsuitable extinguishing media : Straight Streams of Water.

5.2. Special hazards arising from the substance or mixture

- Fire and Explosion hazard : Containers can rupture and explode under fire conditions due to pressure and vapor buildup. Heated vapors may form explosive mixture with air. Vapors may travel across the ground and reach an ignition source.
- Reactivity : Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

- Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighborhood close doors and windows.
- Firefighting instructions : Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.
- Unusual Fire Hazards : Combustible. Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Emergency procedures

- : Eliminate all ignition sources (no smoking flares, sparks or flames in immediate area). Stop leak if you can do so without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Protective equipment

- : Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection".

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6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment

- : Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills. Heating: dilute combustible gas/vapor with water curtain.
- : Take up liquid spill into absorbent material, eg.: sand/earth. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

Methods for cleaning up

Large Spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Recover by pumping or with suitable absorbent.

Other information

- : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection™.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

- : Avoid contact with product. Do not breathe vapors. Use non-sparking tools. Always store in tightly sealed, and properly labeled original container.
- : Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Hygiene measures

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

Storage conditions

- : Ground/bond container and receiving equipment to prevent static discharge during transfer.
- : Store in a cool, dry well-ventilated place away from acute fire hazards. Keep cool. Keep container tightly closed. Store locked up.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

DF-2000™ Fluid (64742-48-9)		
ACGIH	ACGIH TWA (mg/m³)	400 mg/m³ OSHA Z1
ACGIH	ACGIH TWA (ppm)	100 ppm
NIOSH	NIOSH REL (STEL) (mg/m³)	1200 mg/m³ Vapor ; Total Hydrocarbon
NIOSH	NIOSH REL (STEL) (ppm)	177 ppm

8.2. Exposure controls

Appropriate engineering controls

- : Use explosion-proof ventilation equipment. Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated above. The level of protection and types of controls will vary depending upon potential exposure conditions.

Hand protection

Eye protection

Eye wash station and drenching shower in close proximity to use are advised.

- : If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

- : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin and body protection

Respiratory protection

- : Protective clothing.

- : Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

Environmental exposure controls

- : Avoid release to the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

- : Liquid

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Appearance : Liquid.
Color : Colorless
Odor : No appreciable odor.
Odor threshold : No data available
pH : No data available
Melting point : -71 °F
Freezing point : No data available
Boiling point : 365 -412 °F
Flash point : 142 °F
Relative evaporation rate (butyl acetate=1) : < 0.110
Flammability Limits : Lower: 1
Upper: 5
Vapor pressure : 0.5 mmHg
Vapor density (Air-1) : 5.6
Specific Gravity : 0.767
Solubility : Negligible
Log Pow : No data available
Auto-ignition temperature : 635 °F
Decomposition temperature : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available

9.2. Other information
VOC content : 100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Upon combustion: CO and CO2 are formed.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids, and oxidizers.

10.6. Hazardous decomposition products

Material does not decompose at ambient temperatures.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

DF-2000™ Fluid (64742-48-9)	
LD50 oral rat	> 5000 mg/kg (Rat; Similar product)
LD50 dermal rat	> 5000 mg/kg (Rat; Similar product)
LC50 inhalation rat (mg/l)	4.95 mg/l/4h (Rat; Similar product)
ATE US (vapors)	4.950 mg/l/4h
ATE US (dust, mist)	4.950 mg/l/4h
Skin corrosion/irritation	: Not classified

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Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Headache, Dizziness, Narcosis.
Symptoms/injuries after skin contact : ON CONTINUOUS EXPOSURE/CONTACT: Dry skin. Cracking of the skin.
Symptoms/injuries after ingestion : Risk of aspiration pneumonia.
Chronic symptoms : No effects known.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

DF-2000™ Fluid (64742-48-9)

LC50 fish 1	> 1000 mg/l (LC50; 96 h)
EC50 Daphnia 1	> 1000 mg/l (EC50)
LC50 fish 2	> 1000 mg/l (LC50; 96 h)
EC50 Daphnia 2	1000 mg/l (EC0; 48 h)
Threshold limit algae 1	100 mg/l (NOEL; 72 h)
Threshold limit algae 2	> 1000 mg/l (EC50; 72 h)

12.2. Persistence and degradability

DF-2000™ Fluid (64742-48-9)

Persistence and degradability	Readily biodegradable in water.
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12.3. Bioaccumulative potential

DF-2000™ Fluid (64742-48-9)

Log Pow	No data available
Bioaccumulative potential	Bioaccumulation of this product is unlikely.

12.4. Mobility in soil

This product is moderately mobile in soil and likely to volatilize from soil surface.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

- : Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
- : Flammable vapors may accumulate in the container.

Additional information

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SECTION 14: Transport information

Department of Transportation (DOT)

LAND (DOT)

Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.

Hazard Class & Division: COMBUSTIBLE LIQUID

ID Number: 1268

Packing Group: III

ERG Number: 128

Label(s): NONE

Transport Document Name: UN1268, PETROLEUM DISTILLATES, N.O.S., COMBUSTIBLE LIQUID, PG III

Footnote: This material is not regulated under 49 CFR in a container of 119 gallon capacity or less when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance. TDG

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

DF-2000™ Fluid (64742-48-9)

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard
Delayed (chronic) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) 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.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Revision date

: 07/11/2016

Full text of H-phrases:

H227

Combustible liquid

H304

May be fatal if swallowed and enters airways

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NFPA health hazard

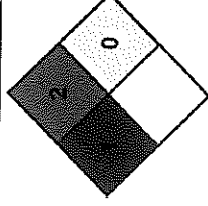
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



SDS US (GHS HazCom 2012)

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