HALLIBURTON

SAFETY DATA SHEET

Product Trade Name: BAROID CONCENTRATE 111

Revision Date: 10-Jun-2015 Revision Number: 6

1. Identification

1.1. Product Identifier

Product Trade Name: BAROID CONCENTRATE 111

Synonyms: None

Chemical Family: Organic hydrocarbon

Internal ID Code HM005999

1.2 Recommended use and restrictions on use

Application: Lubricant

Uses Advised Against No information available

1.3 Manufacturer's Name and Contact Details

Manufacturer/Supplier Baroid Fluid Services

Product Service Line of Halliburton

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By Chemical Stewardship

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

1.4. Emergency telephone number

Emergency Telephone Number (281) 575-5000

2. Hazard(s) Identification

2.1 Classification in accordance with paragraph (d) of §1910.1200

Specific Target Organ Toxicity - (Single Exposure)	Category 3 - H336
Flammable liquids.	Category 4 - H227

2.2. Label Elements

Hazard Pictograms



Signal Word Warning

Hazard Statements H227 - Combustible liquid

H336 - May cause drowsiness or dizziness

Precautionary Statements

Prevention P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves/eye protection/face protection

Response P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position

comfortable for breathing

P312 - Call a POISON CENTER/doctor/physician if you feel unwell P370 + P378 - In case of fire: Use water spray for extinction

Storage P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

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

Disposal P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations

Contains

SubstancesCAS NumberHydrotreated light petroleum distillate64742-47-8

2.3 Hazards not otherwise classified

None known

3. Composition/information on Ingredients

Substances	CAS Number	PERCENT (w/w)	GHS Classification - US
Hydrotreated light petroleum distillate	64742-47-8	10 - 30%	STOT SE 3 (H336)
			Asp. Tox. 1 (H304)

The exact percentage (concentration) of the composition has been withheld as proprietary.

4. First-Aid Measures

4.1. Description of first aid measures

Inhalation If inhaled, move victim to fresh air and seek medical attention.

Eyes In case of contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention if irritation persists.

Skin Wash with soap and water. Get medical attention if irritation persists. Remove

contaminated clothing and launder before reuse.

Ingestion Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical

attention.

4.2 Most important symptoms/effects, acute and delayed

May cause headache, dizziness, and other central nervous system effects.

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

Notes to Physician Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Carbon dioxide, dry chemical, foam.

Extinguishing media which must not be used for safety reasons

None known.

5.2 Specific hazards arising from the substance or mixture

Special Exposure Hazards

Use water spray to cool fire exposed surfaces. Decomposition in fire may produce toxic gases.

5.3 Special protective equipment and precautions for fire-fighters

Special Protective Equipment for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas.

See Section 8 for additional information

6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

6.3. Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Contain spill with sand or other inert materials. Scoop up and remove.

7. Handling and storage

7.1. Precautions for Safe Handling

Handling Precautions

Do not open storage containers or enter confined spaces without adequate ventilation and respiratory protection due to hydrogen sulfide accumulation. Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Launder contaminated clothing before reuse. Wash hands after use.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Information

Store away from oxidizers. Store in a cool well ventilated area. Keep from heat, sparks, and open flames. Keep container closed when not in use. Product has a shelf life of 36 months.

8. Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits

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Substances	CAS Number	OSHA PEL-TWA	ACGIH TLV-TWA	
Hydrotreated light petroleum distillate	64742-47-8	Not applicable	Not applicable	

8.2 Appropriate engineering controls

Engineering Controls

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

8.3 Individual protection measures, such as personal protective equipment

Revision Date: 10-Jun-2015

Personal Protective Equipment If engineering controls and work practices cannot prevent excessive exposures.

the selection and proper use of personal protective equipment should be

determined by an industrial hygienist or other qualified professional based on the

specific application of this product.

Not normally needed. But if significant exposures are possible then the following **Respiratory Protection**

respirator is recommended: Organic vapor respirator.

Impervious rubber gloves. **Hand Protection**

Skin Protection Rubber apron.

Chemical goggles; also wear a face shield if splashing hazard exists. **Eye Protection**

Other Precautions None known.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid Color: Brown-black

Odor: Acrid Odor No information available

Threshold:

Property Values Remarks/ - Method

pH: 4.5

-20 °C / -4 °F Freezing Point/Range Melting Point/Range No data available **Boiling Point/Range** 150 °C / 302 °F

63 °C / 146 °F PMCC **Flash Point**

Flammability (solid, gas) No data available upper flammability limit No data available lower flammability limit No data available No data available **Evaporation rate Vapor Pressure** No data available **Vapor Density** No data available

Specific Gravity 0.987

Water Solubility Insoluble in water No data available Solubility in other solvents Partition coefficient: n-octanol/water No data available No data available **Autoignition Temperature Decomposition Temperature** No data available **Viscosity** No data available

Explosive Properties No information available **Oxidizing Properties** No information available

9.2. Other information

No data available **VOC Content (%)**

10. Stability and Reactivity

10.1. Reactivity

Not expected to be reactive.

10.2. Chemical Stability

Stable

10.3. Possibility of Hazardous Reactions

Will Not Occur

10.4. Conditions to Avoid

None anticipated

10.5. Incompatible Materials

Strong oxidizers.

10.6. Hazardous Decomposition Products

Oxides of sulfur. Carbon monoxide and carbon dioxide.

11. Toxicological Information

11.1 Information on likely routes of exposure

Principle Route of Exposure Eye or skin contact, inhalation.

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Acute Toxicity

Inhalation May cause mild respiratory irritation. May cause central nervous system

depression including headache, dizziness, drowsiness, incoordination, slowed

reaction time, slurred speech, giddiness and unconsciousness.

Eye Contact May cause mild eye irritation.

Skin Contact May cause skin defatting with prolonged exposure. Can dry skin.

Ingestion Irritation of the mouth, throat, and stomach. Aspiration into the lungs may cause

chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing

up blood and pneumonia, which can be fatal.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 0.1%

are chronic health hazards.

11.3 Toxicity data

Toxicology data for the components

TOXIDOTOGY data for th	io compone	1110		
Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrotreated light petroleum distillate	64742-47-8	> 5000 mg/kg (Rat) (similar substance)	> 2000 mg/kg (Rabbit) (similar substance)	> 5.28 mg/L (Rat) 4h (similar substance)

Substances	CAS Number	Skin corrosion/irritation
Hydrotreated light petroleum	64742-47-8	Non-irritating to the skin (similar substances)
distillate		

Substances	CAS Number	Eye damage/irritation
Hydrotreated light petroleum	64742-47-8	Non-irritating to rabbit's eye
distillate		

Substances	CAS Number	Skin Sensitization
Hydrotreated light petroleum	64742-47-8	Did not cause sensitization on laboratory animals (guinea pig) (similar substances)
distillate		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Substances	CAS Number	Respiratory Sensitization
Hydrotreated light petroleum	64742-47-8	No information available
distillate		

Substances	CAS Number	Mutagenic Effects
Hydrotreated light petroleum	64742-47-8	In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. (similar
distillate		substances)

Revision Date: 10-Jun-2015

Substances	CAS Number	Carcinogenic Effects
Hydrotreated light petroleum	64742-47-8	Did not show carcinogenic effects in animal experiments
distillate		

Substances	CAS Number	Reproductive toxicity
Hydrotreated light petroleum distillate		Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. (similar substances)

Substances	CAS Number	STOT - single exposure
Hydrotreated light petroleum	64742-47-8	May cause disorder and damage to the Central Nervous System (CNS) (similar substances)
distillate		

Substances	CAS Number	STOT - repeated exposure
Hydrotreated light petroleum	64742-47-8	No significant toxicity observed in animal studies at concentration requiring classification. (similar
distillate		substances)

Substances	CAS Number	Aspiration hazard
Hydrotreated light petroleum		Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing,
distillate		wheezing, coughing up blood and pneumonia, which can be fatal.

12. Ecological Information

12.1. Toxicity
Ecotoxicity Effects

Product Ecotoxicity Data

No data available

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Hydrotreated light petroleum distillate	64742-47-8	EC50 (72h) > 1,000 mg/L (Skeletonema costatum) ErL50 (72h) > 1000 mg/L (Pseudokirchneriella subcapitata) EbL50 (72h) > 1000 mg/L (Pseudokirchneriella subcapitata) NOELR (72h) 1000 mg/L (Pseudokirchneriella subcapitata)	mg/L (Scophthalmus maximus) LL50 (96h) > 1000 mg/L (Oncorhynchus mykiss)	No information available	LC50 (48h) > 10,000 mg/L (Acartia tonsa) EC50 (48h) 1100 mg/L (Daphnia pulex) LC50 (48h) 0.12 mg/L (Daphnia magna) EL50 (48h) > 1000 mg/L (Daphnia magna)

12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Hydrotreated light petroleum distillate	64742-47-8	Readily biodegradable (40% @ 28d)

12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Hydrotreated light petroleum distillate	64742-47-8	No information available

12.4. Mobility in soil

Substances	CAS Number	Mobility
Hydrotreated light petroleum distillate	64742-47-8	No information available

12.5 Other adverse effects

No information available

13. Disposal Considerations

13.1. Waste treatment methods

Disposal MethodDisposal should be made in accordance with federal, state, and local regulations.

Contaminated Packaging Follow all applicable national or local regulations.

14. Transport Information

US DOT

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Environmental Hazards:
Not restricted
Not restricted
Not applicable
Not applicable

US DOT Bulk

DOT (Bulk)NA1993, Combustible Liquid, N.O.S. (Contains Petroleum Distillates),

Combustible Liquid, III

Canadian TDG

UN Number: Not restricted
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

IMDG/IMO

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Environmental Hazards:
Not restricted
Not restricted
Not applicable
Not applicable

IATA/ICAO

UN Number: Not restricted
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Special Precautions for User: None

15. Regulatory Information

US Regulations

US TSCA Inventory All components listed on inventory or are exempt.

EPA SARA Title III Extremely Hazardous Substances

Not applicable

EPA SARA (311,312) Hazard

Class

Acute Health Hazard

Fire Hazard

EPA SARA (313) Chemicals This product does not contain a toxic chemical for routine annual "Toxic Chemical

Release Reporting" under Section 313 (40 CFR 372).

EPA CERCLA/Superfund Reportable Spill Quantity

Not applicable.

EPA RCRA Hazardous Waste

Classification

If product becomes a waste, it does NOT meet the criteria of a hazardous waste

as defined by the US EPA.

California Proposition 65 All components listed do not apply to the California Proposition 65 Regulation.

MA Right-to-Know Law Does not apply.

NJ Right-to-Know Law Does not apply.

PA Right-to-Know Law Does not apply.

Canadian Regulations

Canadian DSL Inventory Product contains one or more components not listed on the inventory.

16. Other information

Preparation Information

Prepared By Chemical Stewardship

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

Revision Date: 10-Jun-2015

Reason for Revision SDS sections updated:

2

Additional information

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Stewardship at 1-580-251-4335.

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Key or legend to abbreviations and acronyms

bw – body weight

CAS - Chemical Abstracts Service

EC50 - Effective Concentration 50%

ErC50 – Effective Concentration growth rate 50%

LC50 - Lethal Concentration 50%

LD50 - Lethal Dose 50%

LL50 - Lethal Loading 50%

mg/kg - milligram/kilogram

mg/L - milligram/liter

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

PEL – Permissible Exposure Limit

ppm - parts per million

STEL - Short Term Exposure Limit

TWA - Time-Weighted Average

UN - United Nations

h - hour

mg/m³ - milligram/cubic meter

mm - millimeter

mmHg - millimeter mercury

w/w - weight/weight

d - day

Key literature references and sources for data

www.ChemADVISOR.com/ OSHA ECHA C&L

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End of Safety Data Sheet
