



Safety Data Sheet

Material Name: BHTS DISTILLATE

SDS ID: 82627

*** Section 1 - Identification ***

Product Identifier

BHTS DISTILLATE

Product Code

Prefix 07

Synonyms

Fuel oil.

Recommended Use

A fuel oil for use in industrial boilers or furnaces. If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

Restrictions on Use

THIS PRODUCT IS NOT FOR SALE OR USE IN THE STATE OF CALIFORNIA.

Manufacturer Information

Safety-Kleen Systems, Inc.
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Emergency # 1-800-468-1760

Issue Date

March 28, 2015

Supersedes Issue Date

January 22, 2013

Original Issue Date

August 27, 1991

*** Section 2 - Hazard(s) Identification ***

Classification in Accordance with 29 CFR 1910.1200.

Flammable Liquids, Category 3
Acute Toxicity (Inhalation), Category 4
Carcinogenicity, Category 1B
Aspiration Hazard, Category 1

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER!

Hazard Statement(s)

Flammable liquid and vapor
Harmful if inhaled
May cause cancer.
May be fatal if swallowed and enters airways

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Precautionary Statement(s)

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapor or mist. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection.

Response

In case of fire, use media appropriate for extinction. IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Storage

Store in a well-ventilated place. Keep cool. Store locked up.

Disposal

Dispose in accordance with all applicable local regulations.

Hazard(s) Not Otherwise Classified

No additional information is available.

*** Section 3 - Composition / Information on Ingredients ***

CAS	Component	Percent
64742-55-8	Petroleum distillates, hydrotreated light paraffinic	100
7783-06-4	Hydrogen sulfide	*

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Kerosene (8008-20-6).

Component Information/Information on Non-Hazardous Components

*The concentration of hydrogen sulfide dissolved in this product is less than 0.1 WT% but may give rise to vapor concentrations in the vapor portions of the storage tanks which may meet the OSHA PEL or ACGIH TLV® limits.

*** Section 4 - First Aid Measures ***

Description of Necessary Measures

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

Skin

Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists. If product is injected under pressure into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, a physician should immediately evaluate the individual as a medical emergency.

Eyes

If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

Ingestion

Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

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Most Important Symptoms/Effects

Acute

Harmful if inhaled, lung damage (from aspiration)

Delayed

cancer

Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

*** Section 5 - Fire-Fighting Measures ***

Suitable Extinguishing Media

Carbon dioxide, regular foam, dry chemical, or water spray.

Unsuitable Extinguishing Media

Do not scatter spilled material with high-pressure water streams.

Specific Hazards Arising from the Chemical

Flammable liquid and vapor.

Hazardous Combustion Products

Decomposition and combustion materials may be toxic., Upon decomposition, this product emits hydrogen sulphide, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Special Protective Equipment and Precautions for Firefighters

A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Keep storage containers cool with water spray. Empty containers may retain product residue including flammable/explosive vapors. Vapor explosion hazard indoors, outdoors, or in sewers. Vapors may travel to ignition source and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire hazard. Heated containers may rupture or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Take precautionary measures against static discharge. Use non-sparking tools and equipment.

NFPA Ratings: Health: 1 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

Methods and Materials for Containment and Clean Up

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean tool into a sealable container for disposal.

Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see **Section 15: Regulatory Information.**

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*** Section 7 - Handling and Storage ***

Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools and explosion-proof equipment. Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Keep container tightly closed. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not inhale aerosols, mists, sprays, fumes or vapors. Sense of smell becomes rapidly fatigued and cannot be relied upon to warn of the continuous presence of hydrogen sulfide. Use in a well ventilated area. Do not eat, drink, or smoke when using this product. Avoid contact with eyes, skin, clothing, and shoes. Wear protective gloves/clothing and eye/face protection.

Conditions for Safe Storage, Including Any Incompatibilities

Keep container tightly closed when not in use and during transport. Store in a well-ventilated place. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. See **SECTION 14: TRANSPORTATION INFORMATION** for Packing Group information.

Incompatibilities

strong acids, bases, oxidizing materials, air, moisture, protic solvents

*** Section 8 - Exposure Controls / Personal Protection ***

Component Exposure Limits

Petroleum distillates, hydrotreated light paraffinic (64742-55-8)

ACGIH: 200 mg/m³ TWA (application restricted to conditions in which there are negligible aerosol exposures, total hydrocarbon vapor, related to Kerosene)

Skin - potential significant contribution to overall exposure by the cutaneous route (related to Kerosene)

NIOSH: 100 mg/m³ TWA (related to Kerosene)

Hydrogen sulfide (7783-06-4)

ACGIH: 1 ppm TWA

5 ppm STEL

OSHA Final: 20 ppm Ceiling

OSHA Vacated: 10 ppm TWA; 14 mg/m³ TWA

15 ppm STEL; 21 mg/m³ STEL

NIOSH: 10 ppm Ceiling (10 min); 15 mg/m³ Ceiling (10 min)

Appropriate Engineering Controls

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits. Where explosive mixtures may be present, equipment safe for such locations should be used.

Individual Protective Measures, such as Personal Protective Equipment

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: safety glasses, gloves, lab coat, or apron.

Eyes/Face Protection

Safety glasses with side shields should be worn at a minimum. Additional protection such as goggles, face shields, or respirators may be needed depending upon anticipated use and concentrations of vapors or mists.. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Contact lens use is not recommended.

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Skin Protection

Where skin contact is likely, wear chemical impervious protective gloves; use of natural rubber (latex) butyl rubber, or equivalent gloves is not recommended. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

Respiratory Protection

Use respiratory protection in accordance with your company's respiratory protection program, local regulations or OSHA regulations under 29 CFR 1910.134. In case of insufficient ventilation, wear suitable respiratory equipment. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

*** Section 9 - Physical & Chemical Properties ***

Appearance/Odor :	Liquid, clear and red, mild petroleum odor.	pH:	Not applicable
Boiling Point:	266° to 752°F (130° to 400°C) (approximately)	Odor Threshold:	0.1 ppm (based on hydrogen sulfide)
Solubility (H2O):	Insoluble	Melting Point:	Not available [pour point 16°F (-9°C) (maximum)]
Density:	7 LB/US gal (850 g/L) (approximately)	Specific Gravity:	0.85 (water = 1) (approximately)
Evaporation Rate:	Not available	Octanol/H2O Coeff.:	Not available
LFL:	0.7 VOL %	Auto Ignition Temperature:	410°F (210°C)
UFL:	5 VOL%	Flash Point:	39°F (4°C) (minimum) Pensky-Martens Closed Cup
		Viscosity:	Not available
		Vapor Density:	4.5 (air = 1)

Other Property Information

No additional information is available.

*** Section 10 - Stability & Reactivity ***

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions

Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

Conditions To Avoid

Keep away from heat, ignition sources and incompatible materials. Avoid contact with incompatible materials.

Incompatible Materials

This product may react with strong acids, bases, oxidizing agents, protic solvents, air or moisture.

Hazardous Decomposition Products

Decomposition and combustion materials may be toxic., Decomposition products include hydrogen sulfide, oxides of carbon, and low molecular weight hydrocarbons.

*** Section 11 - Toxicological Information ***

Toxicity Data and Information

Component Analysis - LD50/LC50

Petroleum distillates, hydrotreated light paraffinic (64742-55-8)

Inhalation LC50 Rat 3900 mg/m3 4 h

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Hydrogen sulfide (7783-06-4)

Inhalation LC50 Rat 0.99 mg/L 1 h

Information on Likely Routes of Exposure

Inhalation

Irritation, lung damage, cancer.

Ingestion

Irritation, diarrhea.

Skin Contact

Skin irritation, skin disorders.

Eye Contact

Eye irritation.

Immediate Effects

Harmful if inhaled., May be fatal if swallowed and enters airways., May irritate the respiratory tract (nose, throat, and lungs), eyes, and skin. May be harmful if swallowed. Inhaling hydrogen sulfide released from this product in enclosed areas including storage tanks, tanker trucks, and railcars, may cause unconsciousness, convulsions, suffocation, coma, and death.

Delayed Effects

Cancer.

Irritation/Corrosivity

May cause skin irritation, respiratory tract irritation, and eye irritation.

Respiratory Sensitization

Based on best current information, there is no known human sensitization associated with this product.

Skin Sensitization

Based on best current information, there is no known human sensitization associated with this product.

Carcinogenicity

Component Carcinogenicity

Petroleum distillates, hydrotreated light paraffinic (64742-55-8)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (related to Kerosene)

Germ Cell Mutagenicity

Experimental evidence suggests that this product does not cause mutagenesis.

However, a similar material (kerosene) has demonstrated experimental effects of mutagenicity.

Teratogenicity

Based on best current information, there is no known teratogenicity associated with this product.

Reproductive Effects

Based on best current information, there is no known reproductive toxicity associated with this product.

Specific Target Organ Effects - Single Exposure

Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis)., Prolonged or repeated exposure may cause central nervous system and blood damage.

Specific Target Organ Effects - Repeated Exposure

No target organs identified.

Aspiration Hazard

May be fatal if swallowed and enters airways.

Medical Conditions Aggravated by Exposure

Chronic respiratory or skin conditions may temporarily worsen from exposure to this product.

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*** Section 12 - Ecological Information ***

Ecotoxicity

Component Analysis - Ecotoxicity - Aquatic Toxicity

Petroleum distillates, hydrotreated light paraffinic (64742-55-8)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L	
48 Hr EC50 Daphnia magna	>1000 mg/L	

Hydrogen sulfide (7783-06-4)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Lepomis macrochirus	0.0448 mg/L [flow-through]	
96 Hr LC50 Pimephales promelas	0.016 mg/L [flow-through]	

Persistence and Degradability

No information available for the product.

Bioaccumulation Potential

No information available for the product.

Mobility in Soil

No information available for the product.

Other Adverse Effects

No additional information is available.

*** Section 13 - Disposal Considerations ***

Disposal Methods

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

If discarded, this product is considered a RCRA ignitable waste, D001. Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to the disposal of this product.

*** Section 14 - Transport Information ***

International Transportation Regulations

DOT	Shipping Name: Petroleum distillates, n.o.s. UN/NA #: UN1268 Hazard Class: 3 Packing Group: III Required Label(s): 3
TDG	Shipping Name: Petroleum distillates, n.o.s. UN/NA #: UN1268 Hazard Class: 3 Packing Group: III Required Label(s): 3

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*** Section 15 - Regulatory Information ***

Volatile Organic Compounds (As Regulated)

100 WT%; 7.1 LB/US gal; 850 g/L (approximately)

As per 40 CFR Part 51.100(s)

Federal Regulations

SARA 302/304

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product does contain "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B:

Hydrogen sulfide (7783-06-4)

500 lb TPQ

SARA 311/312 Hazardous Categories

This product poses the following health hazards as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

Fire Hazard

Immediate (Acute) Health Hazard

Delayed (Chronic) Health Hazard

Acute Health: Yes **Chronic Health:** Yes **Fire:** Yes **Pressure:** No **Reactive:** No

SARA Section 313

Component Analysis

This product contains a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Hydrogen sulfide (7783-06-4)

1.0 % de minimis concentration

CERCLA

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product contains the following "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ):

Hydrogen sulfide (7783-06-4)

100 lb final RQ; 45.4 kg final RQ

TSCA Inventory

All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

Component Analysis

Component	CAS #	TSCA
Petroleum distillates, hydrotreated light paraffinic	64742-55-8	Yes
Hydrogen sulfide	7783-06-4	Yes

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	MA	MN	NJ	PA	CA
Petroleum distillates, hydrotreated light paraffinic (related to: Kerosene)	64742-55-8	No	Yes	No	Yes ¹	Yes ¹
Hydrogen sulfide	7783-06-4	Yes	Yes	Yes	Yes	Yes

THIS PRODUCT IS NOT FOR SALE OR USE IN THE STATE OF CALIFORNIA

Canadian Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

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Component Analysis

Component	CAS #	CAN
Petroleum distillates, hydrotreated light paraffinic	64742-55-8	DSL
Hydrogen sulfide	7783-06-4	DSL

Canadian WHMIS Information

WHMIS CLASSIFICATION:, B2, D2B, D1B

* * * Section 16 - Other Information * * *

Revision Information

Reformat to OSHA HazCom 29 CFR 1910.1200 adoption of GHS Revision 3.

Key/Legend

ACGIH - American Conference of Governmental Industrial Hygienists; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Disclaimer

User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.

End of Sheet 82627