

**MATERIAL SAFETY DATA SHEET****Shrieve Chemical Products Company**

1717 Woodstead Court  
 Woodlands, TX 77380  
 (281) 367-4226

<b>PRODUCT IDENTIFICATION</b>	
Trade Name:	Shrieve DF 100
Chemical Family:	Alkylaryl Hydrocarbon
Chemical Name:	Alkylbenzene (Benzene, C <sub>14</sub> -C <sub>30</sub> Alkyl derivatives)
Synonyms:	Heavy alkylate, heavy high boiler
CAS Number(s):	68855-24-3
TSCA Inventory:	Benzene C <sub>14</sub> -C <sub>30</sub> alkyl derivatives appears on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under authority of the Toxic Substances Control Act (TSCA).
DOT Proper Shipping Name:	Not Applicable
DOT Hazard Class/I.D. No.:	Not Applicable
DOT Label(s):	Not Applicable
U.S. Surface Freight Classification:	Petroleum Alkylate Detergent Intermediate (Petroleum Oil, N.O.I.B.N.)
IATA Dangerous Good:	Not defined as a dangerous good by IATA for air transportation
Hazardous Chemical(s) Under OSHA: Hazard Communication Standard (CFR 1910.1200):	Non hazardous
SARA Hazard Notification:	Not Applicable (contains no chemicals subject to SARA 302 or 313 [toxic chemicals])
<b>PHYSICAL DATA</b>	
Appearance and odor:	Water-white to yellowish amber oily liquid, slight hydrocarbon odor
Solubility:	Soluble in hydrocarbons; insoluble in water
Boiling Point (°C):	310
Melting Point:	Not Applicable
Average Molecular Weight:	315 (typical)
Specific Gravity (@ 15.6/15.6° C):	0.87
Vapor Pressure (mm Hg @ 40° C):	LT 0.001
Vapor Density:	Not Applicable
Viscosity (cSt @ 40° C):	16.4 - 20.6
Pour Point (°C):	-40
<b>FIRE AND EXPLOSION DATA</b>	
Flash Point (°C CoC)	175
Auto ignition Temperature (°C):	421
Flammability Limits:	Unknown
Extinguishing Media:	CO <sub>2</sub> , Dry chemical, foam, water fog

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Special Fire Fighting Procedure:	Cool exposed equipment with water spray. Firefighters and others exposed to vapors or products of combustion should use self-contained breathing apparatus and wear full protective clothing.
<b>HEALTH HAZARD INFORMATION</b>	
<b>NATURE OF HAZARD</b>	
Eyes:	Expected to cause no more than minor eye irritation. Application of a similar product into the eyes of rabbits produced very slight membrane irritation without corneal injury. Avoid eye contact as good industrial practice.
Skin:	Not a primary skin irritant but may cause skin irritation on repeated or prolonged contact. Application of a similar product onto the skin of rabbits produced slight erythema and edema. The Draize score was 0.6. Not expected to be acutely toxic by skin absorption. The acute dermal LD <sub>50</sub> (rabbits) was greater than 5g/kg for a similar product.
Inhalation:	Avoid breathing vapor or mist. Under normal use conditions, this product is not an inhalation hazard. Prolonged exposure to vapors may cause dizziness and headaches.
Ingestion:	May cause nausea. Not expected to be acutely toxic by ingestion. The acute oral LD <sub>50</sub> (rat) was greater than 5 g/kg for a similar product.
<b>FIRST AID</b>	
Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes while holding the eyelids open. If irritation persists, see a physician.
Skin:	Remove contaminated clothing. Wash skin thoroughly with soap and water. Launder contaminated clothing. See a doctor if irritation persists.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration and seek medical attention immediately. Remove material from eyes, skin and clothing.
Ingestion:	If swallowed, call a physician immediately. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person. If medical advice cannot be obtained, take the person, product container and MSDS to the nearest medical emergency center.
<b>EXPOSURE LIMITS</b>	
No Federal OSHA PEL or ACGIM TLV has been established for this material.	
<b>SPECIAL PRECAUTIONS</b>	
Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.	
<b>SPECIAL PROTECTIVE INFORMATION</b>	
Eyes:	No special eye protection is necessary. Avoid eye contact as good industrial practice.
Skin:	Avoid prolonged or frequently repeated contact. Skin contact can be minimized by wearing impervious protective clothing including gloves.
Respiratory:	Avoid breathing vapor or mist. Use NIOSH/MSHA approved respiratory equipment when airborne exposure is excessive. Consult respirator manufacturer to determine appropriate type equipment for given application.
Ventilation:	Mechanical ventilation is recommended if handling at elevated temperatures or if it is handled in such a manner as to cause mists or vapor to form.

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**REACTIVITY DATA**

Stability:	Stable (Thermal, Light)
Incompatibility:	May react with strong oxidizing materials
Hazardous Decomposition Products:	Normal combustion forms carbon dioxide and water vapor. Incomplete combustion can form carbon monoxide.
Hazardous Polymerization:	Will not occur

**SPILL, LEAK AND DISPOSAL INFORMATION**

- This material is not expected to present any environmental problems other than those normally associated with oil spills.
- Contain spills and leaks to prevent discharge to the environment.
- Absorb spillage with inert material, then place in a chemical waste container. For large spills, dike for later disposal.
- Discarded product should be incinerated or disposed of only in accordance with local, state and federal regulations.
- U.S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spills to Coast Guard toll free number (800) 424-8802.

**ENVIRONMENTAL EFFECTS**

Environmental Toxicity Information for a Similar Product.

96-hr LC<sub>50</sub> Rainbow Trout (*Salmo gairdneri*): >1000 mg/l practically non-toxic96-hr LC<sub>50</sub> Sheepshead Minnow (*Cyprinodon variegatus*): >1000 mg/l practically non-toxic

Biodegradation: This material has not been tested for biodegradation. It is expected to be resistant.

**SHIPPING AND TRANSFER****SHIPPING INFORMATION**

This product is not a hazardous material or hazardous substance as defined by the Department of Transportation, nor is it a dangerous good as defined by IATA for air transportation.

**TRANSFER INFORMATION**

Electrostatic Accumulation Hazard: When transferring this product, there is potential for the accumulation of static electricity. Consideration should be given to bonding and grounding of equipment during loading, unloading and transfer of this product.

DATE: 1/1/96

SUPERSEDES 10/15/92

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