



# Safety Data Sheet

## Hydrofire

### Section 1. Identification

Product Identifier	Hydrofire		
Synonyms	Painters naphtha; Petroleum Ether; Canadol; Ligroin; Benzoline; Benzine		
Manufacturer Stock Numbers	N/A		
Recommended use	Fire accelerant for professional Special Effects use only.		
Uses advised against	Use of this material is at the sole risk of the purchaser.		
Manufacturer Contact Address	Roger George Rentals 14525 Bessemer St Van Nuys, CA, 91411 USA		
	Phone	Emergency Phone	Fax
	(818) 994-3049	(800) 535-5053 #85740	(818) 994-9432

### Section 2. Hazards Identification

Classification	ACUTE TOXICITY - INHALATION - Category 4 ASPIRATION HAZARD - Category 1 EYE DAMAGE/IRRITATION - Category 2A FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3
Signal Word	Danger
Pictogram	



Hazard Statements	Causes serious eye irritation Causes skin irritation Harmful if inhaled Highly flammable liquid and vapor May be fatal if swallowed and enters airways May cause damage to organs through prolonged or repeated exposure. May cause respiratory irritation; or May cause drowsiness or dizziness
Precautionary Statements Response	Call a poison center/doctor if you feel unwell. Do NOT induce vomiting. Get medical advice/attention if you feel unwell. If eye irritation persists: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If swallowed: Immediately call a poison center/doctor. In case of fire: Use CO2, dry chemical or alcohol resistant foam to extinguish.
Prevention	Avoid breathing dust/fume/gas/mist/ vapors/spray. Do not breathe dust/fume/gas/mist/ vapors/spray. Ground/bond container and receiving equipment. Keep away from heat/sparks/oopen flames/hot surfaces. No smoking. Keep container tightly closed. Keep cool Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash face, hands and any other exposed skin thoroughly after handling. Wear protective gloves/eye protection/face protection
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container to an approved waste disposal plant.
Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified Additional Information	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<b>Section 3. Ingredients</b>
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CAS	Ingredient Name	Weight %
8032-32-4	Petroluem Ether	90% - 100%

**Occupational exposure limits, if available, are listed in Section 8.**  
This Product contains one or more ingredients where the specific chemical identity and exact percentage of composition has been withheld as a trade secret

## Section 4. First-Aid Measures

General	Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126).
Ingestion	If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed - can enter lungs and cause damage. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention.
Skin	Wash with soap and water. Get medical attention if irritation develops or persists.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
Eye	Flush eye with plenty of water for 15 minutes while holding eyelids open. Remove contact lenses. Continue flushing for 15 minutes or until eyes return to normal. Get medical attention if irritation develops or persists.
Acute/Delayed Symptoms	Irritating to eyes and skin. Central nervous system effects. May cause headache. Drowsiness. Narcosis. Inhalation of vapors may cause dizziness or suffocation. Aspiration hazard if swallowed - can enter the lungs and cause damage. May cause nausea and vomiting. May cause diarrhea.
Notes to physician	Treat symptomatically.
Protection for first-aiders	First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

## Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire. If water must be used, use as a spray only to protect fire fighters or cool containers. Use fog nozzles if water is used.
Risk	Highly flammable. Container explosion may occur under fire conditions or when heated. May be ignited by heat, sparks or flames.
Flammable Properties	Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Vapors may form explosive mixture with air.
Fire fighting instructions	Move container from fire area if it can be done without risk. Vapors may be heavier than air. They can spread along the ground and collect in low of confined areas. Ignition or flashback may occur.
Risk	Fire may produce irritating, corrosive and/or toxic gases.
Advice for Fire Fighters	Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined area. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

## Section 6. Accidental Release Measures

General Information	Refer to section 7, Handling, for additional precautionary measures.
Release	Ensure adequate ventilation.
Clean-up	Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. Absorb spill with inert material (e.g., dry sand, silica gel, acid binder, universal binder, sawdust), then shovel into a suitable container for disposal. Do not use sparking

	tools. Clean contaminated surface thoroughly.
Large spills	Water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces. Dike far ahead of spill for later disposal.
Spill or Release data	Carefully contain and stop the source of the spill, if safe to do so.
Precautionary Measures	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## Section 7. Handling and Storage

Personal Precautions	Avoid contact with skin, eyes and clothing.
General Information	Use proper personal protective equipment as indicated in Section 8.
Handling	Put on appropriate personal protective equipment (see Section 8). Ensure adequate ventilation. Avoid contact with eyes, skin, and clothing. Pay attention to flashback. No smoking, open flames, or sources of ignition in handling and storage area. A static spark discharge can ignite accumulated vapors particularly during dry weather conditions. Always use proper bonding and grounding procedures. Use spark-proof tools and explosion-proof equipment. Ground and bond containers when transferring material. Do not breathe gas/fumes/vapor/spray. Do not ingest. Do not eat, drink, or smoke in the work area. Use good industrial hygiene practices in handling this material. Keep away from oxidizing agents.
Storage	Keep separated from incompatible substances (see below or section 10 of the SDS). Keep container tightly closed in a dry, well-ventilated place. Store at room temperature in the original container. Keep away from sources of ignition. Keep away from heat, sparks, and flame. Store in a segregated and approved area. Store away from incompatible materials.

## Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Petroluem Ether	350 mg/m3 TWA. 	N/A	N/A
Personal Protective Equipment	Goggles, Gloves, Apron, Respirator			
Engineering Controls	Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. High standards of skin care and personal hygiene should be exercised at all times.			
Hand Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratort practices. Wash and dry hands.			
Body Protection	Apron and long sleeves are recommended. Use body protection appropriate for task. Cover-all, rubber aprons, or chemical protective clothing made from impervious materials are generally acceptable, depending on the task.			
Eyes	Wear safety glasses with side shields (or goggles) .			
Respirators	A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister. Protection provided by air purifying respirators is limited. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.			
Hygeine	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working			

Precautionary Measures period.  
 Precautions When using do not eat or drink. When using, do not smoke.  
 Avoid contact with skin, eyes and clothing.

## Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Clear Colorless
Odor	(Slight) Gasoline odor
Odor Threshold	N/A
Solubility	insoluble in water
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	0.6
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	<-18 C / <0 F
FP Method	closed cup
Ph	N/A
Melting Point	< -73 C / <- 99.4 F
Boiling Point	20 C / 68 F
Boiling Range	20 C - 75 C
LEL	1.1
UEL	5.9
Evaporation Rate	N/A
Flammability	Highly Flammable
Decomposition Temperature	N/A
Auto-ignition Temperature	287-288 C / 548.6-550 F
Vapor Pressure	5.3 kPa @ 20C
Vapor Density	2.5

Additional Information Miscible with alcohol, chlorophorm, ether, benzene, carbon tetrachloride, carbon disulfide, oils (except castor oil).

## Section 10. Stability and Reactivity

Stability Stable under normal temperatures and pressures.  
 Conditions to Avoid Ignition sources and excess heat.  
 Incompatibilities Incompatible with oxidizing agents.  
 Hazardous Decomposition Decomposition products may include but are not limited to: carbon dioxide and carbon monoxide.

## Section 11. Toxicological Information

Acute Toxicity	Petroleum Ether: LC50 Inhalation - rat- 3400 PPM over 4 hrs.
Skin	Causes skin irritation.
Eye	Causes eye irritation.
Inhalation	Harmful by inhalation. May cause irritation of respiratory tract. Can cause dyspnea (shortness of breath and difficulty breathing). May cause nausea, vomiting. It may affect behavior/central nervous system (ataxia, general anesthetic, drowsiness). Inhalation of high concentrations of vapor may cause anesthetic effects. Inhalation of high concentrations of vapors may cause dizziness or suffocation. It may affect behavior/central nervous system (convulsions). It may affect behavior/central nervous system (euphoria, central nervous system depression - headache, vertigo, fatigue, lethargy, poor concentration, symptoms of intoxication, impaired memory, loss of coordination and judgement, unconsciousness, coma).
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea, coughing, choking, gagging. Aspiration hazard if swallowed. Aspiration hazard - this material can enter lungs during swallowing or vomiting and cause lung inflammation and damage. Aspiration into lungs can cause chemical pneumonitis and may lead to pulmonary edema. Can cause severe central nervous system depression. May cause central nervous system effects similar to those of inhalation
Chronic Toxicity	Prolonged or repeated inhalation may cause loss of appetite. Prolonged or repeated inhalation may affect the peripheral nervous system (weakness, peripheral neuropathy with paresthesia - a tingling, pricking, or numbness of the skin (known as the feeling of "pins and needles) generally of the hands and feet (extremities)). Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated skin contact may cause dermatitis and defatting, dryness, and cracking of the skin. Prolonged or repeated inhalation may cause impairment of motor action.
Carcinogenicity	Not classifiable as to its carcinogenicity to humans. IARC - Group 3 (listed under petroleum solvents).
Teratogenic Effects	According to the Registry of Toxic Effects of Chemical Substances (RTECS):. May cause birth defects (teratogenic effects) based on animal test data. It has not been shown to cause teratogenic effects in humans.
Target Organs	Central nervous system. Peripheral nervous system. Skin. Eyes. Lungs. Respiratory system.

## Section 12. Ecological Information

Toxicity: Algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 4700 mg/L over 72 hr.
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## Section 13. Disposal

Compliance	ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES. EPA CHARACTERISTIC: D001 Empty containers should be taken for local recycling, recovery or waste disposal
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## Section 14. Transport Information

UN Number	1268
UN Proper Shipping Name	Petroleum distillates, n.o.s (ligroin)
DOT Classification	3

## Section 15. Regulatory Information

New Jersey Right to Know	Petroleum Ether- CAS-No. 8032-32-4.
Pennsylvania Right to Know	Petroleum Ether- CAS-No. 8032-32-4.
Minnesota Hazardous Substance	Petroleum Ether- CAS-No. 8032-32-4.
California Prop. 65	This product and its ingredients are not listed, but it may contain impurities/trace elements known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act. For additional information, contact OxyChem Customer Relations.
Canada Controlled Products Regulation	Petroleum Ether- CAS# 8032-32-4 - >1%
EU Classification - R-phrase	R45 - May cause cancer. R46 - May cause heritable genetic damage. R65 - Also harmful: may cause lung damage if swallowed.
EU Classification - S-phrase	S53 - Avoid exposure - obtain special instructions before use. S45 - In case of accident or if you feel unwell, seek medical advice immediately.
Additional Information	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

## Section 16. Other Information

Revision Date	10/19/2015
Company Policy/Disclaimer	The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. The supplier nor any of its subsidiaries makes no representations as to its accuracy or sufficiency. This information is furnished without warranty of any kind. Conditions of use are beyond Roger George Rentals' control and therefore users must determine whether the product is suitable for their particular purposes and they assume all risk of their use, handling and disposal of the product, or from the publications or use of, or reliance upon information contained herein. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process in which user assumes all responsibility.