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Zĭppo

1 Identification

[•] Product identifier

· Trade name: Zippo Lighter Fluid

· Recommended use and restriction on use

· Recommended use: Fuel

· Restrictions on use: Contact manufacturer/supplier

[.] Details of the supplier of the Safety Data Sheet

• **Manufacturer/Supplier:** Zippo Manufacturing Company 33 Barbour Street Bradford, PA 16701 Phone: 814-368-2700

• Emergency telephone number: ChemTel Inc.

(800)255-3924 (North America) +1 (813)248-0585 (International)

2 Hazard(s) identification

$^{\cdot}$ Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

[·] Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms:



· Signal word: Danger

· Hazard statements:

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

Precautionary statements:

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.

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P280	Wear protective gloves and eye protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P331	Do NOT induce vomiting.
	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center/doctor if you feel unwell.
	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use foam, powder, or carbon dioxide for extinction.
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/international regulations.
[.] Other hazards ⊺	here are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

İ	68410-97-9 Distillates (petroleum), light distillate hydrotreating process, low-boiling	50-100%
	 Flam. Liq. 2, H225 Asp. Tox. 1, H304 	
	🚯 Skin Irrit. 2, H315; STOT SE 3, H336	
	64742-49-0 Naphtha (petroleum), hydrotreated light	25-50%
	🚸 Flam. Liq. 2, H225	
	Asp. Tox. 1, H304	
	5TOT SE 3, H336	

· Additional information:

For the wording of the listed Hazard Statements, refer to section 16.

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

4 First-aid measures

Description of first aid measures

After inhalation:

Supply fresh air; consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing. In case of unconsciousness place patient stably in side position for transportation. · After skin contact: Immediately remove any clothing soiled by the product. Immediately wash with water and soap and rinse thoroughly. If skin irritation is experienced, consult a doctor. · After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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· After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. A person vomiting while lying on their back should be turned onto their side. Most important symptoms and effects, both acute and delayed: Breathing difficulty Coughing Dizziness Gastric or intestinal disorders when ingested. Irritant to skin and mucous membranes. Danger: Vapors have narcotic effect. May be fatal if swallowed and enters airways. Indication of any immediate medical attention and special treatment needed: If swallowed, gastric irrigation with added, activated carbon. If swallowed or in case of vomiting, danger of entering the lungs. Monitor circulation, possible shock treatment. If necessary oxygen respiration treatment. Later observation for pneumonia and pulmonary edema. If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water stream.
- Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

In certain fire conditions, traces of other toxic gases cannot be excluded.

[•] Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

• Additional information: Cool endangered containers with water fog.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Wear protective clothing. Particular danger of slipping on leaked/spilled product. Keep away from ignition sources. Protect from heat.

Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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· Methods and material for containment and cleaning up

Absorb liquid components with liquid-binding material.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

[·] Handling

· Precautions for safe handling:

- Use only in well ventilated areas.
- Prevent formation of aerosols.
- Keep receptacles tightly sealed.
- Information about protection against explosions and fires:
- Protect from heat.
- Protect against electrostatic charges.
- Flammable gas-air mixtures may be formed in empty containers/receptacles.

[•] Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Use only receptacles specifically permitted for this substance/product.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Store away from foodstuffs.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

• Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

· Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Exposure controls

• Engineering measures Provide adequate ventilation.

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid close or long term contact with the skin.

Keep ignition sources away - Do not smoke.

• Engineering controls: Provide adequate ventilation.

· Breathing equipment:

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Not required under normal conditions of use.

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

Protection of hands:

Not required under normal conditions of use.

Wear protective gloves to handle contents of damaged or leaking units.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear. • **Body protection:** Not required under normal conditions of use.

• Limitation and supervision of exposure into the environment No relevant information available.

· Risk management measures See Section 7 for additional information.

Information on basic physical ar	nd chemical properties
Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Petroleum-like
Odor threshold:	Not determined.
pH-value:	Not determined.
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	> 35 °C (>95 °F)
Flash point:	<-6.5 °C (<20.3 °F)
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive a vapor mixtures are possible.
Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	0.7 ± 0.05 g/cm³ (5.84 lbs/gal)
Relative density:	Not determined.
Vapor density:	Not determined.
Evaporation rate at 20 °C (68 °F):	>1

Partly miscible.

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· Partition coefficient (n-octanol/water): Not determined.

 Viscosity Dynamic: Kinematic:
 Other information

Water:

Not determined. Not determined. No relevant information available.

10 Stability and reactivity

· Reactivity: No relevant information available.

· Chemical stability:

• Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

[•] Possibility of hazardous reactions

Forms explosive gas mixture with air.

Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.

[·] Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

· Incompatible materials No relevant information available.

• Hazardous decomposition products Carbon monoxide and carbon dioxide

11 Toxicological information

[·] Information on toxicological effects

• Acute toxicity:

- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- On the skin: Irritant to skin and mucous membranes.
- · On the eye: Based on available data, the classification criteria are not met.
- · Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact. Skin contact.

• Acute effects (acute toxicity, irritation and corrosivity):

May be fatal if swallowed and enters airways.

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Irritating to skin.

May cause drowsiness or dizziness.

· Repeated dose toxicity: No relevant information available.

• Germ cell mutagenicity: Based on available data, the classification criteria are not met.

• Carcinogenicity: Based on available data, the classification criteria are not met.

• **Reproductive toxicity:** Based on available data, the classification criteria are not met.

• **STOT-single exposure:** May cause drowsiness or dizziness.

• STOT-repeated exposure: Based on available data, the classification criteria are not met.

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

12 Ecological information

[·] Toxicity

· Aquatic toxicity Toxic to aquatic life with long lasting effects.

Persistence and degradability Not easily biodegradable

· Bioaccumulative potential: No relevant information available.

• Mobility in soil: No relevant information available.

Additional ecological information

· General notes:

This statement was deduced from the properties of the single components.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

[•] Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

· Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

[·] UN-Number

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DOT, ADR, IMDG, IATA	UN1268
UN proper shipping name	
Limited Quantity for packages le gal).	ess than 30 kg (66 lb) and inner packagings less than 1 L (0
DOT, IATA ADR, IMDG	Petroleum distillates, n.o.s. PETROLEUM DISTILLATES, N.O.S.
Transport hazard class(es)	
DOT	
Class	3
Label	3
ADR	
Class	3 (F1)
Label	3
IMDG, IATA	
Class Label	3 3
Packing group DOT, ADR, IMDG, IATA	П
Environmental hazards	Product contains environmentally hazardou substances: Distillates (petroleum), light distillat hydrotreating process, low-boiling, Naphth (petroleum), hydrotreated light
Special precautions for user Danger code (Kemler): EMS Number:	Warning: Flammable liquids 33 F-E,S-E

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m Ui	afety, health and environmental regulations/legislation specific for the substance lixture nited States (USA) ARA
	ection 302 (extremely hazardous substances):
No	one of the ingredients are listed.
Se	ection 355 (extremely hazardous substances):
No	one of the ingredients are listed.
· Se	ection 313 (Specific toxic chemical listings):
No	one of the ingredients are listed.
· TS	SCA (Toxic Substances Control Act)
Al	I ingredients are listed.
· Pr	roposition 65 (California)
· Cl	hemicals known to cause cancer:
No	one of the ingredients are listed.
· Cl	hemicals known to cause developmental toxicity for females:
No	one of the ingredients are listed.
· Cl	hemicals known to cause developmental toxicity for males:
No	one of the ingredients are listed.
· Cl	hemicals known to cause developmental toxicity:
No	one of the ingredients are listed.
·EF	PA (Environmental Protection Agency):
No	one of the ingredients are listed.
·IA	RC (International Agency for Research on Cancer):
No	one of the ingredients are listed.
· Ca	anadian Domestic Substances List (DSL) (Substances not listed.):
AI	Il ingredients are listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods

- DOT: US Department of Transportation
- IATA: International Air Transport Association
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistant, Bio-accumulable, Toxic
- vPvB: very Persistent and very Bioaccumulative

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Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Asp. Tox. 1: Aspiration hazard - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com