

# International SDS Documents

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	<b>SAFETY DATA SHEET</b>	Pages : 15
		Revision nr : 1
	<b>Naphtha (petroleum), full-range straight-run</b>	Issue date : 04/02/2015
		Revision date: 06/14/18

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name/designation Naphtha (petroleum), full-range straight-run  
SDS Number 406-GHS  
EC No 265-042-6  
CAS No. 64741-42-0

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Main use category : Laboratory use

### 1.3. Details of the supplier of the safety data sheet

Company

**Clark Laboratories**  
1801 Route 51 South  
Jefferson Hills, PA 15025  
412-387-1001

### 1.4. Emergency telephone number

Chemtrec- 24 Hour Emergency Response  
1-800-424-9300  
International Collect: +1 703 741 5970

SDS Assistance Email: [sds@clarktesting.com](mailto:sds@clarktesting.com)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### **2.1.1. Classification according to Regulation (EU) 1272/2008**

CLP-Classification : The product is classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

Flam. Liq. 1 H224  
Skin Irrit. 2 H315  
Muta. 1B H340  
Carc. 1B H350  
Repr. 2 H361fd  
STOT SE 3 H336  
Asp. Tox. 1 H304  
Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

#### **2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Classification : This substance is classified as hazardous according to 67/548/EEC.  
Carc.Cat.2; R45  
Muta.Cat.2; R46

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Repr.Cat.3; R62  
Repr.Cat.3; R63  
F+; R12  
Xn; R65  
Xi; R38  
N; R51/53  
R67

Full text of R-phrases: see section 16

## **2.2. Label elements**

### **2.2.1. Labelling according to Regulation (EU) 1272/2008**

**Signal Word: DANGER**

#### **Hazardous Pictograms**



#### **Hazard statements**

Highly flammable liquid and vapor  
May be fatal if swallowed and enters airways  
Causes skin irritation  
May cause drowsiness or dizziness  
May cause genetic defects  
May cause cancer  
Suspected of damaging fertility or the unborn child  
May cause damage to organs through prolonged or repeated exposure  
Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

##### **Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Keep away from heat/sparks/open flames/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  
Do not breathe mist/vapors/ spray  
Do not eat, drink or smoke when using this product  
Use only outdoors or in a well ventilated area  
Wash hands and any possibly exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid release to the environment.

##### **Response**

If exposed or concerned: Get medical attention  
If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water/shower  
If skin irritation occurs: Get medical attention  
Wash contaminated clothing before reuse  
If swallowed: immediately call a poison center or doctor  
Do NOT induce vomiting

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In case of fire: Use water spray, fog or regular foam for extinction

Collect spillage

**Storage**

Keep container tightly closed. Store in a well ventilated place. Keep cool. Store locked up.

**Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.2.2. Labelling according to Directives (67/548 - 1999/45)**

Not relevant

**2.3. Other hazards**

Other hazards

Vapours can form explosive mixtures with air.

Results of PBT and vPvB assessment :

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

Substance name	Product identifier	%
Naphtha (petroleum), full-range straight-run	(CAS No.) 64741-41-9 (EC No) 265-041-0 (EC Index) 649-265-00-X	0-100
Substance name	Product identifier	%
Toluene	(CAS No.) 108-88-3 (EC No) 203-625-9 (EC Index) 601-021-003	0-5
n-Hexane	(CAS No.) 110-54-3 (EC No) 203-777-6 (EC Index) 601-037-00-0	0-15
Benzene	(CAS No.) 71-43-2 (EC No) 200-753-7 (EC Index) 601-020-00-8	0-3

Substance name	Product identifier	%
n-Heptane	(CAS No.) 142-82-5 (EC No) 205-563-8 (EC Index) 601-008-00-2	0-12
Methylcyclohexane	(CAS No.) 108-87-2 (EC No) 203-624-3 (EC Index) 601-018-00-7	0-10

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Octane	(CAS No.) 111-65-9 (EC No) 203-892-1 (EC Index) 601-009-00-8	0-10
Cyclohexane	(CAS No.) 110-82-7 (EC No) 203-806-2 (EC Index) 601-030-00-2	0-8

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Substance name	Product identifier	%
Xylene	(CAS No.) 1330-20-7 (EC No) 215-535-7 (EC Index) 601-022-00-9	0-8
n-Nonane	(CAS No.) 111-84-2 (EC No) 203-913-4	0-7
Cyclopentane	(CAS No.) 287-92-3 (EC No) 206-016-6 (EC Index) 601-030-00-2	0-4

Substance name	Product identifier	%
Ethylbenzene	(CAS No.) 100-41-4 (EC No) 202-849-4 (EC Index) 601-023-00-4	0-4
Hexane	Mixture	0-4
Pentane	(CAS No.) 109-66-0 (EC No) 203-692-4 (EC Index) 601-006-00-1	0-3
Napthalene	CAS No.) 91-20-3 (EC No) 202-049-5 (EC Index) 601-052-00-2	0-0.5
Hydrogen Sulfide	(CAS No.) 7783-06-4 (EC No) 231-977-3 (EC Index) 016-001-00-4	0-1

Full text of R- and H-phrases: see section 16

### **3.2. Mixtures**

Not applicable

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

- Inhalation : Remove person to fresh air and keep comfortable for breathing.  
If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.
- Skin contact : Wash with plenty of soap and water.  
When in doubt or if symptoms are observed, get medical advice.  
Remove contaminated clothing and wash it before reuse.
- Eye contact : Rinse immediately carefully and thoroughly with eye-bath or water.  
When in doubt or if symptoms are observed, get medical advice.

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In case of ingestion : Rinse mouth thoroughly with water.  
Do NOT induce vomiting.  
Get immediate medical advice/attention.

Additional advice : First aider: Pay attention to self-protection!  
Personal protection equipment: see section 8  
Treat symptomatically.  
Never give anything by mouth to an unconscious person or a person with cramps.  
When in doubt or if symptoms are observed, get medical advice.  
Show this safety data sheet to the doctor in attendance.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Inhalation : May cause drowsiness or dizziness. Vapours may cause drowsiness and dizziness. The following symptoms may occur: Cough, Mental confusion  
Headache.  
: Causes skin irritation. The following symptoms may occur: erythema (redness).

Inhalation : Contact with eyes may cause irritation. The following symptoms may occur: erythema (redness).

Skin contact : May be fatal if swallowed and enters airways. The following symptoms may occur: Central nervous system depression.

Eye contact : Suspected of damaging fertility. Suspected of damaging the unborn child.  
May cause cancer. May cause genetic defects.

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

Ingestion No data available

Other adverse effects

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media : Water spray, alcohol resistant foam, Dry extinguishing powder, Carbon dioxide

Extinguishing media which must not be used for safety reasons : Strong water jet

#### **5.2. Special hazards arising from the substance or mixture**

Fire hazard : Extremely flammable liquid and vapour.  
: Heating causes rise in pressure with risk of bursting.  
Vapours can form explosive mixtures with air.  
Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Specific hazards : Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode.  
Hazardous decomposition products  
Carbon oxides (COx)  
Organic compounds  
as appropriate :  
Hydrogen sulfide (H<sub>2</sub>S)  
Sulphur oxides  
Sulphuric acid  
Do not allow run-off from fire-fighting to enter drains or water courses.  
Dispose according to legislation.

: Special protective equipment for firefighters.  
In case of fire: Wear self-contained breathing apparatus.  
Use water spray jet to protect personnel and to cool endangered containers.  
Evacuate area.

#### **5.3. Advice for firefighters**

Advice for firefighters

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Do not allow run-off from fire-fighting to enter drains or water courses.  
Dispose according to legislation.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- : Evacuate area.
- Stay upwind/keep distance from source.
- Provide adequate ventilation.
- Use personal protective equipment as required.
- Personal protection equipment: see section 8
- Avoid contact with skin, eyes and clothes.
- Do not breathe vapour/spray.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Ensure that the equipment is adequately grounded.
- Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
- Use only non-sparking tools.
- As appropriate :
- Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.
- : Ensure procedures and training for emergency decontamination and disposal are in place.
- Personal protection equipment: see section 8 .

For emergency responders

- : Do not allow to enter into ground-water, surface water or drains.
- If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.2. Environmental precautions 6.3. Methods and material for containment and cleaning up

Environmental precautions  
Methods for cleaning up

- : Use foam on spills to minimise vapours.
- Stop leak if safe to do so.
- Clean-up methods - small spillage: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents), Collect in closed and suitable containers for disposal.
- Clean-up methods - large spillage: Use foam on spills to minimise vapours., Dam up., Large spills should be collected mechanically (remove by pumping) for disposal., Collect in closed and suitable containers for disposal.
- Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.
- Dispose of waste product or used containers according to local regulations.

### 6.4. Reference to other sections

Personal protection equipment: see section 8,  
Disposal: see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Provide adequate ventilation.
- Use personal protective equipment as required.
- Personal protection equipment: see section 8



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Avoid contact with skin, eyes and clothes.  
Do not breathe vapour/spray.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Take precautionary measures against static discharges.  
Ensure that the equipment is adequately grounded.  
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.  
Use only non-sparking tools.  
Take any precaution to avoid mixing with incompatible materials.  
See also section 10.  
Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time).  
Do not allow contact with soil, surface or ground water.  
as appropriate  
Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.  
Keep good industrial hygiene.  
Wash hands before breaks and immediately after using the product.  
Take off contaminated clothing.  
When using do not eat, drink or smoke.  
Keep work clothes separately.  
Keep away from food, drink and animal feedingstuffs.  
Wash contaminated clothing before reuse.

Advices on general occupational hygiene

## **7.2. Conditions for safe storage, including any incompatibilities**

Storage

: Storage of flammable liquids  
Keep in a dry, cool and well-ventilated place.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Open valve slowly to avoid pressure shock.  
Do not store near or with any of the incompatible materials listed in section 10.  
Protect from sunlight.  
Bund storage facilities to prevent soil and water pollution in the event of spillage.  
As appropriate :  
Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.  
Keep/Store only in original container.  
Suitable material: Mild steel, Stainless steel  
Unsuitable material: synthetic material

Packaging materials

## **7.3 Specific end use(s)**

see attached exposure scenario.

# **SECTION 8: Exposure controls/personal protection**

## **8.1. Control parameters**

Exposure limit values

: Not applicable

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**8.2. Exposure controls**

Personal protection equipment

Respiratory protection

Hand protection

Eye protection  
Body protection

Thermal hazard protection

Engineering control measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

In case of insufficient ventilation, wear suitable respiratory equipment. Filter type: ABEK (EN 141)

Half-face mask (DIN EN 140)

Full face mask (EN 136)

Self-contained open-circuit compressed air breathing apparatus (EN 137)

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Wear chemically resistant gloves (tested to EN374), **NBR** (Nitrile rubber) > 0,3 mm, BTT: >480 min, The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Use suitable eye protection. (EN 166) Goggles

Wear suitable coveralls to prevent exposure to the skin.

Chemical protection clothing

Antistatic clothing

In case of large spillages:

Wear full chemical protective clothing.

Not required under normal use.

Use dedicated equipment.

Provide adequate ventilation.

Safe handling: see section 7

Use only outdoors or in a well-ventilated area.

Store locked up.

Transfer and handle product only in closed systems.

Take precautionary measures against static discharges.

Ensure that the equipment is adequately grounded.

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

Do not allow to enter into surface water or drains.

Comply with applicable Community environmental protection legislation.

Do not allow contact with soil, surface or ground water.

Environmental exposure controls

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Appearance	liquid
Colour	light straw to red clear
Odour	Characteristic Gasoline Odor
Odour threshold	N/A
pH	No data available
Melting point/freezing point	44.01 F (6.67 C) Estimated
Initial boiling point and boiling range	>209.75 F (>98.75 C)
Flash point	>-58.3 F (>-50.2 C)
Evaporation rate	: <10.6 Estimated
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	Not applicable, liquid No data available

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Vapour pressure	N/A
Vapour density	<3.5 Estimated (Air=1)
Relative density	0.77 (Water=1) (60 F)
Water solubility	Very slightly soluble
Partition coefficient n-octanol/water	No data available
Auto-ignition temperature	>849.2 F (>454 C)
Decomposition temperature	No data available
Viscosity	No data available

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

**Reactivity:** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability:** Stable under normal temperature conditions and recommended use.

**Possibility of hazardous reaction:** Hazardous polymerization does not occur.

**Conditions to avoid:** Heat, flames and sparks, ignition sources. Contact with incompatible materials. Do not pressurize, cut weld, braze solder, drill, grind or expose empty containers to heat, flame sparks, static electricity, or other sources of ignition: they may explode and cause injury or death.

**Incompatible materials:** Strong oxidizing agents. Reducing agents, acids, alkalis.

**Hazardous decomposition products:** No hazardous decomposition products are known.

## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

<b>Naphtha (petroleum), full-range straight-run (64741-42-0)</b>	
LD50/oral/rat	> 7000 mg/kg
LD50/dermal/rat	> 2000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg

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**Naphtha (petroleum), full-range straight-run (64741-42-0)**

LC50/inhalation/4h/rat > 5,04 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation. pH: No data available
Serious eye damage/eye irritation	: Not classified (Based on available data, the classification criteria are not met.) pH: No data available
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met.)
Germ cell mutagenicity	: May cause genetic defects. Benzene
Carcinogenicity	: May cause cancer. Benzene
Reproductive toxicity	: Suspected of damaging fertility. Suspected of damaging the unborn child. n-Hexane Toluene
STOT-single exposure STOT-repeated exposure Aspiration hazard	: May cause drowsiness or dizziness. : Not classified (Based on available data, the classification criteria are not met.) : May be fatal if swallowed and enters airways.

**Other information**

Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

**SECTION 12: Ecological information**

**12.1. Toxicity**

Toxicity : Toxic to aquatic life with long lasting effects.

<b>Naphtha (petroleum), full-range straight-run (64741-42-0)</b>	
LC50 fish 1	82 mg/l
EC50 Daphnia 1	2 mg/l (Exposure time: 48 h - Species: Mysisidopsis bahia)
EC50 72h Algae [mg/l] (1)	4700 mg/l (Species: Pseudokirchneriella subcapitata)

**12.2. Persistence and degradability**

Persistence and degradability : Not applicable  
Substance is complex UVCB.

**12.3. Bioaccumulative potential**

Bioaccumulation : Not applicable  
Substance is complex UVCB.  
Partition coefficient n-octanol/water : No data available

**12.4. Mobility in soil**

Mobility : No data available  
Substance is complex UVCB

**12.5. Results of PBT and vPvB assessment**

PBT/vPvB data : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).  
This substance is not considered to be very persistent nor very

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bioaccumulating (vPvB).

#### **12.6. Other adverse effects**

Other information No data available

### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

Product waste:

: Handle with care.  
Safe handling: see section 7  
Handling and storage  
Refer to manufacturer/supplier for information on recovery/recycling.  
Collect and dispose of waste product at an authorised disposal facility.  
Do not allow contact with soil, surface or ground water.  
Dispose of empty containers and wastes safely.  
Recycling is preferred to disposal or incineration  
If recycling is not possible, eliminate in accordance with local valid waste disposal regulations

: Do not burn, or use a cutting torch on, the empty drum.  
Do not puncture or incinerate.  
Delivery to an approved waste disposal company.  
Handle contaminated packages in the same way as the substance itself.  
Dispose according to legislation.

Contaminated packaging

: This material and its container must be disposed of as hazardous waste.  
Waste codes should be assigned by the user based on the application for which the product was used.  
The following Waste Codes are only suggestions:  
13 07 02\*  
150110\* - packaging containing residues of or contaminated by dangerous substances

List of proposed waste codes/waste designations in accordance with EWC

### **SECTION 14: Transport information**

#### **14.1. UN number**

UN number : 1268

#### **14.2. UN proper shipping name**

Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S.  
Proper Shipping Name (IATA) : Petroleum distillates, n.o.s.  
Proper Shipping Name (IMDG) : PETROLEUM DISTILLATES, N.O.S.  
Proper Shipping Name (ADN) : PETROLEUM DISTILLATES, N.O.S.

#### **14.3. Transport hazard classes**

##### **14.3.1. Overland transport**

Class(es) : 3 - Flammable liquid  
Hazard identification number (Kemler No.) : 33  
Classification code : FI  
ADR/RID-Labels : 3 - Flammable liquid



##### **14.3.2. Inland waterway transport (ADN)**

ADN : Hazards :3+N2

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Class (UN) : 3

14.3.3. Transport by sea

Class or Division : 3 - flammable liquids

14.3.4. Air transport

Class or Division : 3 - flammable liquids

14.4. Packing group

Packing group : I

14.5. Environmental hazards

Environmental hazards : p



Other information : ADN : N2.

14.6 Special precautions for user

Special precautions for user : No data available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC : No data available.

**SECTION 15: Regulatory information**

15.1.

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No

1907

/2006 Safety, health and environmental regulations/legislation specific for the substance or mixture

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3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008

5. Benzene

28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Carcinogen category 1A or 1B (Table 3.1) or Carcinogen category 1 or 2 (Table 3.2) and listed as follows: Carcinogen category 1A (Table 3.1)/Carcinogen category 1 (Table 3.2) listed in Appendix 1 Carcinogen category 1B (Table 3.1)/Carcinogen category 2 (Table 3.2) listed in Appendix 2

: Naphtha (petroleum), full-range straight-run : Benzene

29. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Germ cell Mutagen category 1A or 1B (Table 3.1) or Mutagen category 1 or 2 (Table 3.2) and listed as follows: Mutagen category 1A (Table 3.1)/Mutagen category 1 (Table 3.2) listed in Appendix 3 Mutagen category 1B (Table 3.1)/Mutagen category 2 (Table 3.2) listed in Appendix 4

: Naphtha (petroleum), full-range straight-run

: Naphtha (petroleum), full-range straight-run

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40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. : Naphtha (petroleum), full-range straight-run  
48. Toluene : Toluene

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC. : none  
Authorisations : Not applicable

Take note of Directive 92/85/EEC on the safety and health at work of pregnant workers.  
Take note of Directive 94/33/EC on the protection of young people at work.

#### 15.1.2. National regulations

DE : WGK : 3  
DE : German storage class (LGK) : LGK 3 - Flammable liquid materials (Flashpoint < 55 °C)  
DE : TA-Luft : Organic Substances, Carcinogenic substances, Mutagenic  
DE : Technische Regeln für Gefahrstoffe (TRGS) : applicable  
DE : Risk classification according to VbF : A I - Liquids with a flashpoint below 21 °C  
FR : Installations classées : 143X; ;113X; 117X  
NL : ABM : 2 - May cause heritable genetic damage. (A)  
NL : NeR (Nederlandse emissie Richtlijn) : Organic substances in vapour or gaseous form

#### 15.2. Chemical safety assessment

Chemical Safety Assessment : For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Aquatic Chronic 2 : Hazardous to the aquatic environment - chronic hazard category 2  
Asp. Tox. 1 : Aspiration hazard, Category 1  
Carc. 1A : Carcinogenicity, Category 1A  
Carc. 1B : Carcinogenicity, Category 1B  
Eye Irrit. 2 : Serious eye damage/eye irritation Category 2  
Flam. Liq. 1 : Flammable liquids, Category 1  
Flam. Liq. 2 : Flammable liquids, Category 2  
Muta. 1B : Germ cell mutagenicity, hazard categories 1B  
Repr. 2 : Reproductive toxicity, Hazard Category 2  
Repr. 2 : Reproductive toxicity, Hazard Category 2  
Repr. 2 : Reproductive toxicity, Hazard Category 2  
Skin Irrit. 2 : Skin corrosion/irritation, Category 2  
STOT RE 1 : Specific target organ toxicity — Repeated exposure, Category 1  
STOT RE 2 : Specific target organ toxicity — Repeated exposure, Category 2  
STOT SE 3 : Specific target organ toxicity — Single exposure, Category 3, Narcosis  
H224 : Extremely flammable liquid and vapour.  
H225 : Highly flammable liquid and vapour.  
H304 : May be fatal if swallowed and enters airways.  
H315 : Causes skin irritation.  
H319 : Causes serious eye irritation.  
H336 : May cause drowsiness or dizziness.  
H340 : May cause genetic defects.  
H350 : May cause cancer.

“FOR INFORMATION REFERENCE ONLY. A product specific SDS is included with each shipment. Use the SDS sent with each sample for information related to the product supplied per program cycle.”

H361d	: Suspected of damaging the unborn child.
H361f	: Suspected of damaging fertility.
H361fd	: Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	: Causes damage to organs through prolonged or repeated exposure.
H373	: May cause damage to organs through prolonged or repeated exposure.
H411	: Toxic to aquatic life with long lasting effects.
R11	: Highly flammable.
R12	: Extremely flammable.
R36/38	: Irritating to eyes and skin.
R38	: Irritating to skin.
R45	: May cause cancer.
R46	: May cause heritable genetic damage.
R48/20	: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R48/23/24/25	: Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R51/53	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	: Possible risk of impaired fertility.
R63	: Possible risk of harm to the unborn child.
R65	: Harmful: may cause lung damage if swallowed.
R67	: Vapours may cause drowsiness and dizziness.
F	: Highly flammable
F+	: Extremely flammable
N	: Dangerous for the environment
T	: Toxic
Xi	: Irritant
Xn	: Harmful

Key literature references and sources for data : European Chemicals Agency  
CSR

Abbreviations and acronyms : ADN = Accord Europeen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin  
ADR = Accord europeen relatif au transport international des marchandises Dangereuses par Route  
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods Code  
LEL = Lower Explosive Limit/Lower Explosion Limit  
UEL = Upper Explosion Limit/Upper Explosive Limit  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
N = Dangerous for the environment  
TWA = time weighted average  
PBT = persistent, bioaccumulating and toxic (PBT).  
vPvB = very persistent and very bioaccumulating  
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)  
T = Toxic  
TLV = Threshold limits  
STEL = Short term exposure limit  
DNEL = Derived No Effect Level  
CSR = Chemical Safety Report  
EC50 = Median Effective Concentration  
UVCB = Substance of unknown or variable composition, complex reaction products or biological material (UVCB)  
DMEL = Derived minimal effect level  
PNEC = Predicted No Effect Concentration  
OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)  
LC50 = Median lethal concentration  
LD50 = Median lethal dose



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LL50 = Median lethal level  
EL50 = Median effective level  
ErC50 = EC50 in terms of reduction of growth rate  
ErL50 = EL50 in terms of reduction of growth rate  
NOEL = No-observed-effect level  
NOEC = No observed effect concentration  
NOELR = No observed effect loading rate  
NOAEC = No observed adverse effect concentration  
NOAEL = No observed adverse effect level  
EWC = European Waste Catalogue  
NA = Not applicable  
N.O.S. = Not Otherwise Specified  
VOC = Volatile organic compounds  
Quantitative structure-activity relationship (QSAR)  
ABM = Algemene beoordelingsmethodiek  
STOT = Specific Target Organ Toxicity  
BTT = Breakthrough time (maximum wearing time)

**NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. Adequate training and instruction should be given by you to your employees and affected personnel. Appropriate warnings and safe handling procedures should be provided by you to handlers and users. Additionally, the user should review this information, satisfy itself as to its suitability and completeness, and pass on the information to its employees or customers in accordance with the applicable federal, state, provincial or local hazard communication requirements. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or presentation, expressed or implied, is made as to the fitness for use of the material, or the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, vendor neither assumes nor retains any responsibility for any damage or injury resulting from abnormal use, from any failure to adhere to appropriate practices, or from any hazards inherent in the nature of the material. Moreover, unless an employee or a customer accesses or receives a SDS directly from the company, there is no assurance that a document obtained from alternate sources is the most currently available SDS. The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.**

**Completed by Clark PTP Staff**

**No Annex**

# Domestic SDS Documents

**\*FOR INFORMATION REFERENCE ONLY.** A product specific SDS is included with each shipment. Use the SDS sent with each sample for information related to the product supplied per program cycle.

“FOR INFORMATION REFERENCE ONLY. A product specific SDS is included with each shipment. Use the SDS sent with each sample for information related to the product supplied per program cycle.”

	<b>SAFETY DATA SHEET</b>	Pages : 15
		Revision nr : 1
	<b>Naphtha (petroleum), full-range straight-run</b>	Issue date : 04/02/2015
		Revision date: 06/14/18

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name/designation Naphtha (petroleum), full-range straight-run  
SDS Number 406-GHS  
EC No 265-042-6  
CAS No. 64741-42-0

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Main use category : Laboratory use

### 1.3. Details of the supplier of the safety data sheet

Company

**Clark Laboratories**  
1801 Route 51 South  
Jefferson Hills, PA 15025  
412-387-1001

### 1.4. Emergency telephone number

Chemtrec- 24 Hour Emergency Response  
1-800-424-9300  
International Collect: +1 703 741 5970

SDS Assistance Email: sds@clarktesting.com

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### **2.1.1. Classification according to Regulation (EU) 1272/2008**

CLP-Classification : The product is classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

Flam. Liq. 1 H224  
Skin Irrit. 2 H315  
Muta. 1B H340  
Carc. 1B H350  
Repr. 2 H361fd  
STOT SE 3 H336  
Asp. Tox. 1 H304  
Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

#### **2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Classification : This substance is classified as hazardous according to 67/548/EEC.  
Carc.Cat.2; R45  
Muta.Cat.2; R46

“FOR INFORMATION REFERENCE ONLY. A product specific SDS is included with each shipment. Use the SDS sent with each sample for information related to the product supplied per program cycle.”

Repr.Cat.3; R62  
Repr.Cat.3; R63  
F+; R12  
Xn; R65  
Xi; R38  
N; R51/53  
R67

Full text of R-phrases: see section 16

## **2.2. Label elements**

### **2.2.1. Labelling according to Regulation (EU) 1272/2008**

**Signal Word: DANGER**

#### **Hazardous Pictograms**



#### **Hazard statements**

Highly flammable liquid and vapor  
May be fatal if swallowed and enters airways  
Causes skin irritation  
May cause drowsiness or dizziness  
May cause genetic defects  
May cause cancer  
Suspected of damaging fertility or the unborn child  
May cause damage to organs through prolonged or repeated exposure  
Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

##### **Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Keep away from heat/sparks/open flames/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  
Do not breathe mist/vapors/ spray  
Do not eat, drink or smoke when using this product  
Use only outdoors or in a well ventilated area  
Wash hands and any possibly exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid release to the environment.

##### **Response**

If exposed or concerned: Get medical attention  
If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water/shower  
If skin irritation occurs: Get medical attention  
Wash contaminated clothing before reuse  
If swallowed: immediately call a poison center or doctor  
Do NOT induce vomiting

“FOR INFORMATION REFERENCE ONLY. A product specific SDS is included with each shipment. Use the SDS sent with each sample for information related to the product supplied per program cycle.”

In case of fire: Use water spray, fog or regular foam for extinction

Collect spillage

**Storage**

Keep container tightly closed. Store in a well ventilated place. Keep cool. Store locked up.

**Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.2.2. Labelling according to Directives (67/548 - 1999/45)**

Not relevant

**2.3. Other hazards**

Other hazards

Vapours can form explosive mixtures with air.

Results of PBT and vPvB assessment :

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

Substance name	Product identifier	%
Naphtha (petroleum), full-range straight-run	(CAS No.) 64741-41-9 (EC No) 265-041-0 (EC Index) 649-265-00-X	0-100
Substance name	Product identifier	%
Toluene	(CAS No.) 108-88-3 (EC No) 203-625-9 (EC Index) 601-021-003	0-5
n-Hexane	(CAS No.) 110-54-3 (EC No) 203-777-6 (EC Index) 601-037-00-0	0-15
Benzene	(CAS No.) 71-43-2 (EC No) 200-753-7 (EC Index) 601-020-00-8	0-3

Substance name	Product identifier	%
n-Heptane	(CAS No.) 142-82-5 (EC No) 205-563-8 (EC Index) 601-008-00-2	0-12
Methylcyclohexane	(CAS No.) 108-87-2 (EC No) 203-624-3 (EC Index) 601-018-00-7	0-10

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Octane	(CAS No.) 111-65-9 (EC No) 203-892-1 (EC Index) 601-009-00-8	0-10
Cyclohexane	(CAS No.) 110-82-7 (EC No) 203-806-2 (EC Index) 601-030-00-2	0-8

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Substance name	Product identifier	%
Xylene	(CAS No.) 1330-20-7 (EC No) 215-535-7 (EC Index) 601-022-00-9	0-8
n-Nonane	(CAS No.) 111-84-2 (EC No) 203-913-4	0-7
Cyclopentane	(CAS No.) 287-92-3 (EC No) 206-016-6 (EC Index) 601-030-00-2	0-4

Substance name	Product identifier	%
Ethylbenzene	(CAS No.) 100-41-4 (EC No) 202-849-4 (EC Index) 601-023-00-4	0-4
Hexane	Mixture	0-4
Pentane	(CAS No.) 109-66-0 (EC No) 203-692-4 (EC Index) 601-006-00-1	0-3
Napthalene	CAS No.) 91-20-3 (EC No) 202-049-5 (EC Index) 601-052-00-2	0-0.5
Hydrogen Sulfide	(CAS No.) 7783-06-4 (EC No) 231-977-3 (EC Index) 016-001-00-4	0-1

Full text of R- and H-phrases: see section 16

### **3.2. Mixtures**

Not applicable

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

- Inhalation : Remove person to fresh air and keep comfortable for breathing.  
If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.
- Skin contact : Wash with plenty of soap and water.  
When in doubt or if symptoms are observed, get medical advice.  
Remove contaminated clothing and wash it before reuse.
- Eye contact : Rinse immediately carefully and thoroughly with eye-bath or water.  
When in doubt or if symptoms are observed, get medical advice.

“FOR INFORMATION REFERENCE ONLY. A product specific SDS is included with each shipment. Use the SDS sent with each sample for information related to the product supplied per program cycle.”

In case of ingestion : Rinse mouth thoroughly with water.  
Do NOT induce vomiting.  
Get immediate medical advice/attention.

Additional advice : First aider: Pay attention to self-protection!  
Personal protection equipment: see section 8  
Treat symptomatically.  
Never give anything by mouth to an unconscious person or a person with cramps.  
When in doubt or if symptoms are observed, get medical advice.  
Show this safety data sheet to the doctor in attendance.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Inhalation : May cause drowsiness or dizziness. Vapours may cause drowsiness and dizziness. The following symptoms may occur: Cough, Mental confusion  
Headache.  
: Causes skin irritation. The following symptoms may occur: erythema (redness).

Inhalation : Contact with eyes may cause irritation. The following symptoms may occur: erythema (redness).

Skin contact : May be fatal if swallowed and enters airways. The following symptoms may occur: Central nervous system depression.

Eye contact : Suspected of damaging fertility. Suspected of damaging the unborn child.  
May cause cancer. May cause genetic defects.

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

Ingestion No data available

Other adverse effects

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media : Water spray, alcohol resistant foam, Dry extinguishing powder, Carbon dioxide

Extinguishing media which must not be used for safety reasons : Strong water jet

#### **5.2. Special hazards arising from the substance or mixture**

Fire hazard : Extremely flammable liquid and vapour.  
: Heating causes rise in pressure with risk of bursting.  
Vapours can form explosive mixtures with air.  
Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Specific hazards : Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode.  
Hazardous decomposition products  
Carbon oxides (COx)  
Organic compounds  
as appropriate :  
Hydrogen sulfide (H<sub>2</sub>S)  
Sulphur oxides  
Sulphuric acid  
Do not allow run-off from fire-fighting to enter drains or water courses.  
Dispose according to legislation.

: Special protective equipment for firefighters.  
In case of fire: Wear self-contained breathing apparatus.  
Use water spray jet to protect personnel and to cool endangered containers.  
Evacuate area.

#### **5.3. Advice for firefighters**

Advice for firefighters



“FOR INFORMATION REFERENCE ONLY. A product specific SDS is included with each shipment. Use the SDS sent with each sample for information related to the product supplied per program cycle.”

Do not allow run-off from fire-fighting to enter drains or water courses.  
Dispose according to legislation.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- : Evacuate area.
- Stay upwind/keep distance from source.
- Provide adequate ventilation.
- Use personal protective equipment as required.
- Personal protection equipment: see section 8
- Avoid contact with skin, eyes and clothes.
- Do not breathe vapour/spray.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Ensure that the equipment is adequately grounded.
- Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
- Use only non-sparking tools.
- As appropriate :
- Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.
- : Ensure procedures and training for emergency decontamination and disposal are in place.
- Personal protection equipment: see section 8 .

For emergency responders

- : Do not allow to enter into ground-water, surface water or drains.
- If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.2. Environmental precautions 6.3. Methods and material for containment and cleaning up

Environmental precautions  
Methods for cleaning up

- : Use foam on spills to minimise vapours.
- Stop leak if safe to do so.
- Clean-up methods - small spillage: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents), Collect in closed and suitable containers for disposal.
- Clean-up methods - large spillage: Use foam on spills to minimise vapours., Dam up., Large spills should be collected mechanically (remove by pumping) for disposal., Collect in closed and suitable containers for disposal.
- Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.
- Dispose of waste product or used containers according to local regulations.

### 6.4. Reference to other sections

Personal protection equipment: see section 8,  
Disposal: see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Provide adequate ventilation.
- Use personal protective equipment as required.
- Personal protection equipment: see section 8

“FOR INFORMATION REFERENCE ONLY. A product specific SDS is included with each shipment. Use the SDS sent with each sample for information related to the product supplied per program cycle.”

Avoid contact with skin, eyes and clothes.  
Do not breathe vapour/spray.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Take precautionary measures against static discharges.  
Ensure that the equipment is adequately grounded.  
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.  
Use only non-sparking tools.  
Take any precaution to avoid mixing with incompatible materials.  
See also section 10.  
Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time).  
Do not allow contact with soil, surface or ground water.  
as appropriate  
Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.  
Keep good industrial hygiene.  
Wash hands before breaks and immediately after using the product.  
Take off contaminated clothing.  
When using do not eat, drink or smoke.  
Keep work clothes separately.  
Keep away from food, drink and animal feedingstuffs.  
Wash contaminated clothing before reuse.

Advices on general occupational hygiene

## **7.2. Conditions for safe storage, including any incompatibilities**

Storage

: Storage of flammable liquids  
Keep in a dry, cool and well-ventilated place.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Open valve slowly to avoid pressure shock.  
Do not store near or with any of the incompatible materials listed in section 10.  
Protect from sunlight.  
Bund storage facilities to prevent soil and water pollution in the event of spillage.  
As appropriate :  
Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.  
Keep/Store only in original container.  
Suitable material: Mild steel, Stainless steel  
Unsuitable material: synthetic material

Packaging materials

## **7.3 Specific end use(s)**

see attached exposure scenario.

# **SECTION 8: Exposure controls/personal protection**

## **8.1. Control parameters**

Exposure limit values

: Not applicable

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**8.2. Exposure controls**

Personal protection equipment

Respiratory protection

Hand protection

Eye protection  
Body protection

Thermal hazard protection

Engineering control measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

In case of insufficient ventilation, wear suitable respiratory equipment. Filter type: ABEK (EN 141)

Half-face mask (DIN EN 140)

Full face mask (EN 136)

Self-contained open-circuit compressed air breathing apparatus (EN 137)

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Wear chemically resistant gloves (tested to EN374), **NBR** (Nitrile rubber) > 0,3 mm, BTT: >480 min, The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Use suitable eye protection. (EN 166) Goggles

Wear suitable coveralls to prevent exposure to the skin.

Chemical protection clothing

Antistatic clothing

In case of large spillages:

Wear full chemical protective clothing.

Not required under normal use.

Use dedicated equipment.

Provide adequate ventilation.

Safe handling: see section 7

Use only outdoors or in a well-ventilated area.

Store locked up.

Transfer and handle product only in closed systems.

Take precautionary measures against static discharges.

Ensure that the equipment is adequately grounded.

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

Do not allow to enter into surface water or drains.

Comply with applicable Community environmental protection legislation.

Do not allow contact with soil, surface or ground water.

Environmental exposure controls

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Appearance	liquid
Colour	light straw to red clear
Odour	Characteristic Gasoline Odor
Odour threshold	N/A
pH	No data available
Melting point/freezing point	44.01 F (6.67 C) Estimated
Initial boiling point and boiling range	>209.75 F (>98.75 C)
Flash point	>-58.3 F (>-50.2 C)
Evaporation rate	: <10.6 Estimated
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	Not applicable, liquid
	No data available

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Vapour pressure	N/A
Vapour density	<3.5 Estimated (Air=1)
Relative density	0.77 (Water=1) (60 F)
Water solubility	Very slightly soluble
Partition coefficient n-octanol/water	No data available
Auto-ignition temperature	>849.2 F (>454 C)
Decomposition temperature	No data available
Viscosity	No data available

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

**Reactivity:** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability:** Stable under normal temperature conditions and recommended use.

**Possibility of hazardous reaction:** Hazardous polymerization does not occur.

**Conditions to avoid:** Heat, flames and sparks, ignition sources. Contact with incompatible materials. Do not pressurize, cut weld, braze solder, drill, grind or expose empty containers to heat, flame sparks, static electricity, or other sources of ignition: they may explode and cause injury or death.

**Incompatible materials:** Strong oxidizing agents. Reducing agents, acids, alkalis.

**Hazardous decomposition products:** No hazardous decomposition products are known.

## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

<b>Naphtha (petroleum), full-range straight-run (64741-42-0)</b>	
LD50/oral/rat	> 7000 mg/kg
LD50/dermal/rat	> 2000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg

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**Naphtha (petroleum), full-range straight-run (64741-42-0)**

LC50/inhalation/4h/rat > 5,04 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation. pH: No data available
Serious eye damage/eye irritation	: Not classified (Based on available data, the classification criteria are not met.) pH: No data available
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met.)
Germ cell mutagenicity	: May cause genetic defects. Benzene
Carcinogenicity	: May cause cancer. Benzene
Reproductive toxicity	: Suspected of damaging fertility. Suspected of damaging the unborn child. n-Hexane Toluene
STOT-single exposure STOT-repeated exposure Aspiration hazard	: May cause drowsiness or dizziness. : Not classified (Based on available data, the classification criteria are not met.) : May be fatal if swallowed and enters airways.

**Other information**

Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

**SECTION 12: Ecological information**

**12.1. Toxicity**

Toxicity : Toxic to aquatic life with long lasting effects.

<b>Naphtha (petroleum), full-range straight-run (64741-42-0)</b>	
LC50 fish 1	82 mg/l
EC50 Daphnia 1	2 mg/l (Exposure time: 48 h - Species: Mysisidopsis bahia)
EC50 72h Algae [mg/l] (1)	4700 mg/l (Species: Pseudokirchneriella subcapitata)

**12.2. Persistence and degradability**

Persistence and degradability Not applicable  
Substance is complex UVCB.

**12.3. Bioaccumulative potential**

Bioaccumulation Not applicable  
Substance is complex UVCB.  
Partition coefficient n-octanol/water No data available

**12.4. Mobility in soil**

Mobility No data available  
Substance is complex UVCB

**12.5. Results of PBT and vPvB assessment**

PBT/vPvB data This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).  
This substance is not considered to be very persistent nor very

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bioaccumulating (vPvB).

#### **12.6. Other adverse effects**

Other information No data available

### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

Product waste:

: Handle with care.  
Safe handling: see section 7  
Handling and storage  
Refer to manufacturer/supplier for information on recovery/recycling.  
Collect and dispose of waste product at an authorised disposal facility.  
Do not allow contact with soil, surface or ground water.  
Dispose of empty containers and wastes safely.  
Recycling is preferred to disposal or incineration  
If recycling is not possible, eliminate in accordance with local valid waste disposal regulations

: Do not burn, or use a cutting torch on, the empty drum.  
Do not puncture or incinerate.  
Delivery to an approved waste disposal company.  
Handle contaminated packages in the same way as the substance itself.  
Dispose according to legislation.

Contaminated packaging

: This material and its container must be disposed of as hazardous waste.  
Waste codes should be assigned by the user based on the application for which the product was used.  
The following Waste Codes are only suggestions:  
13 07 02\*  
150110\* - packaging containing residues of or contaminated by dangerous substances

List of proposed waste codes/waste designations in accordance with EWC

### **SECTION 14: Transport information**

#### **14.1. UN number**

UN number : 1268

#### **14.2. UN proper shipping name**

Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S.  
Proper Shipping Name (IATA) : Petroleum distillates, n.o.s.  
Proper Shipping Name (IMDG) : PETROLEUM DISTILLATES, N.O.S.  
Proper Shipping Name (ADN) : PETROLEUM DISTILLATES, N.O.S.

#### **14.3. Transport hazard classes**

##### **14.3.1. Overland transport**

Class(es) : 3 - Flammable liquid  
Hazard identification number (Kemler No.) : 33  
Classification code : FI  
ADR/RID-Labels : 3 - Flammable liquid



##### **14.3.2. Inland waterway transport (ADN)**

ADN : Hazards :3+N2

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Class (UN) : 3

**14.3.3. Transport by sea**

Class or Division : 3 - flammable liquids

**14.3.4. Air transport**

Class or Division : 3 - flammable liquids

**14.4. Packing group**

Packing group : I

**14.5. Environmental hazards**

Environmental hazards : p



Other information : ADN : N2.

**14.6 Special precautions for user**

Special precautions for user : No data available.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Code: IBC : No data available.

**SECTION 15: Regulatory information**

**15.1.**

**15.1.1. EU-Regulations**

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No

1907

/2006 Safety, health and environmental regulations/legislation specific for the substance or mixture

6

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008

**5. Benzene**

28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Carcinogen category 1A or 1B (Table 3.1) or Carcinogen category 1 or 2 (Table 3.2) and listed as follows: Carcinogen category 1A (Table 3.1)/Carcinogen category 1 (Table 3.2) listed in Appendix 1 Carcinogen category 1B (Table 3.1)/Carcinogen category 2 (Table 3.2) listed in Appendix 2

: Naphtha (petroleum), full-range straight-run : Benzene

29. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Germ cell Mutagen category 1A or 1B (Table 3.1) or Mutagen category 1 or 2 (Table 3.2) and listed as follows: Mutagen category 1A (Table 3.1)/Mutagen category 1 (Table 3.2) listed in Appendix 3 Mutagen category 1B (Table 3.1)/Mutagen category 2 (Table 3.2) listed in Appendix 4

: Naphtha (petroleum), full-range straight-run

: Naphtha (petroleum), full-range straight-run

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40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. : Naptha (petroleum), full-range straight-run  
48. Toluene : Toluene

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC. : none  
Authorisations : Not applicable

Take note of Directive 92/85/EEC on the safety and health at work of pregnant workers.  
Take note of Directive 94/33/EC on the protection of young people at work.

#### 15.1.2. National regulations

DE : WGK : 3  
DE : German storage class (LGK) : LGK 3 - Flammable liquid materials (Flashpoint < 55 °C)  
DE : TA-Luft : Organic Substances, Carcinogenic substances, Mutagenic  
DE : Technische Regeln für Gefahrstoffe (TRGS) : applicable  
DE : Risk classification according to VbF : A I - Liquids with a flashpoint below 21 °C  
FR : Installations classées : 143X; ;113X; 117X  
NL : ABM : 2 - May cause heritable genetic damage. (A)  
NL : NeR (Nederlandse emissie Richtlijn) : Organic substances in vapour or gaseous form

#### 15.2. Chemical safety assessment

Chemical Safety Assessment : For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Aquatic Chronic 2 : Hazardous to the aquatic environment - chronic hazard category 2  
Asp. Tox. 1 : Aspiration hazard, Category 1  
Carc. 1A : Carcinogenicity, Category 1A  
Carc. 1B : Carcinogenicity, Category 1B  
Eye Irrit. 2 : Serious eye damage/eye irritation Category 2  
Flam. Liq. 1 : Flammable liquids, Category 1  
Flam. Liq. 2 : Flammable liquids, Category 2  
Muta. 1B : Germ cell mutagenicity, hazard categories 1B  
Repr. 2 : Reproductive toxicity, Hazard Category 2  
Repr. 2 : Reproductive toxicity, Hazard Category 2  
Repr. 2 : Reproductive toxicity, Hazard Category 2  
Skin Irrit. 2 : Skin corrosion/irritation, Category 2  
STOT RE 1 : Specific target organ toxicity — Repeated exposure, Category 1  
STOT RE 2 : Specific target organ toxicity — Repeated exposure, Category 2  
STOT SE 3 : Specific target organ toxicity — Single exposure, Category 3, Narcosis  
H224 : Extremely flammable liquid and vapour.  
H225 : Highly flammable liquid and vapour.  
H304 : May be fatal if swallowed and enters airways.  
H315 : Causes skin irritation.  
H319 : Causes serious eye irritation.  
H336 : May cause drowsiness or dizziness.  
H340 : May cause genetic defects.  
H350 : May cause cancer.



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H361d	: Suspected of damaging the unborn child.
H361f	: Suspected of damaging fertility.
H361fd	: Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	: Causes damage to organs through prolonged or repeated exposure.
H373	: May cause damage to organs through prolonged or repeated exposure.
H411	: Toxic to aquatic life with long lasting effects.
R11	: Highly flammable.
R12	: Extremely flammable.
R36/38	: Irritating to eyes and skin.
R38	: Irritating to skin.
R45	: May cause cancer.
R46	: May cause heritable genetic damage.
R48/20	: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R48/23/24/25	: Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R51/53	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	: Possible risk of impaired fertility.
R63	: Possible risk of harm to the unborn child.
R65	: Harmful: may cause lung damage if swallowed.
R67	: Vapours may cause drowsiness and dizziness.
F	: Highly flammable
F+	: Extremely flammable
N	: Dangerous for the environment
T	: Toxic
Xi	: Irritant
Xn	: Harmful

Key literature references and sources for data : European Chemicals Agency  
CSR

Abbreviations and acronyms : ADN = Accord Europeen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin  
ADR = Accord europeen relatif au transport international des marchandises Dangereuses par Route  
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods Code  
LEL = Lower Explosive Limit/Lower Explosion Limit  
UEL = Upper Explosion Limit/Upper Explosive Limit  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
N = Dangerous for the environment  
TWA = time weighted average  
PBT = persistent, bioaccumulating and toxic (PBT).  
vPvB = very persistent and very bioaccumulating  
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)  
T = Toxic  
TLV = Threshold limits  
STEL = Short term exposure limit  
DNEL = Derived No Effect Level  
CSR = Chemical Safety Report  
EC50 = Median Effective Concentration  
UVCB = Substance of unknown or variable composition, complex reaction products or biological material (UVCB)  
DMEL = Derived minimal effect level  
PNEC = Predicted No Effect Concentration  
OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)  
LC50 = Median lethal concentration  
LD50 = Median lethal dose

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LL50 = Median lethal level  
EL50 = Median effective level  
ErC50 = EC50 in terms of reduction of growth rate  
ErL50 = EL50 in terms of reduction of growth rate  
NOEL = No-observed-effect level  
NOEC = No observed effect concentration  
NOELR = No observed effect loading rate  
NOAEC = No observed adverse effect concentration  
NOAEL = No observed adverse effect level  
EWC = European Waste Catalogue  
NA = Not applicable  
N.O.S. = Not Otherwise Specified  
VOC = Volatile organic compounds  
Quantitative structure-activity relationship (QSAR)  
ABM = Algemene beoordelingsmethodiek  
STOT = Specific Target Organ Toxicity  
BTT = Breakthrough time (maximum wearing time)

**NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. Adequate training and instruction should be given by you to your employees and affected personnel. Appropriate warnings and safe handling procedures should be provided by you to handlers and users. Additionally, the user should review this information, satisfy itself as to its suitability and completeness, and pass on the information to its employees or customers in accordance with the applicable federal, state, provincial or local hazard communication requirements. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or presentation, expressed or implied, is made as to the fitness for use of the material, or the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, vendor neither assumes nor retains any responsibility for any damage or injury resulting from abnormal use, from any failure to adhere to appropriate practices, or from any hazards inherent in the nature of the material. Moreover, unless an employee or a customer accesses or receives a SDS directly from the company, there is no assurance that a document obtained from alternate sources is the most currently available SDS. The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.**

**Completed by Clark PTP Staff**

**No Annex**