



# MATERIAL SAFETY DATA SHEET

Safety Department

Review:2.5

July 01, 2023

10-QSR-MDS

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## 1) MATERIAL IDENTIFICATION:

Safra Product Name De-Aromatized Aliphatic Solvent

Product Trade Name **Safrasol D40™**

Chemical Symbol Mixture of Aliphatic Petroleum Hydrocarbons with 1% max. aromatics

Molecular weight >140

ID # & CAS UN 3295 & CAS # 64742-48-9

Manufacturer: Safra Company in its Yanbu Refinery

Address: P.O.Box: 30063, Yanbu Al Sinaiyah, Kingdom of Saudi Arabia

Country of Origin & Production Kingdom of Saudi Arabia

## 2) PHYSICAL & CHEMICAL PROPERTIES:

### a- PHYSICAL PROPERTIES

Boiling Range 150 - 205oC

Specific Gravity(H<sub>2</sub>O = 1) 0.760 - 0.790

Vapor Density(AIR = 1) 3.9

Solubility in Water Insoluble

Evaporation rate Not defined

(Butyl Acetate = 1)

Appearance, color Clear water white

Flash Point 40 oC Min. ASTM D56

### b- CHEMICAL PROPERTIES

Aromatic Content Less than 1% vol.: low level in aromatics reduces carcinogenic risk.

Sulfur Content Max. 5 ppm wt.

## 3) COMPOSITION DATA:

Ingredients Mixture of Aliphatic Petroleum Hydrocarbons with max. 1% aromatics.

## 4) HEALTH HAZARDS:

TLV 100 ppm Max.

Effect of single over exposure Low order of toxicity, very small amounts aspirated into lung during Swallowing ingestion or vomiting, may cause severe lung congestion resulting in labored breathing.

Skin Absorption None currently known.

Inhalation Irritating to the respiratory tract. In high concentration may cause central nervous system effects leading to drowsiness, dizziness and marcosis.

Skin Contact Frequent or prolonged may irritate and cause dermatitis.

Eye Contact Irritation but does not injure eye tissue.

Effect of repeated over exposure No evidence of adverse effects from available information.



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## 5) FIRE FIGHTING MEASURES:

Extinguishing Media Use foam, dry chemical powder, Carbon dioxide.

Special Fire Fighting Use self contained breathing apparatus and protective clothing.

Avoid spreading, burning liquid with water which should be used for cooling containers as water spray.

Unusual Fire and Explosion Moderately explosive when exposed to flame or chemically reacted.

Hazard Vapor from this product, may travel or be moved by air currents and

be ignited by pilot lights, other flames, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations

distant from handling point.

Small Fire Dry chemical powder, CO2 & water supply.

Large Fire Water spray, fog or foam. Move containers or drums from fire area if

you can do it without risk. Cool containers that are exposed to

flames with water from the sides until / and after fire is out.

Extinguishing Media Use foam, dry chemical powder or water spray.

Special Fire Fighting Do not spray water directly into storage containers due to danger of boil over.

Unusual Fire and Explosion None

Hazard

## 6) EMERGENCY AND FIRST AID MEASURES UPON EXPOSURE TO THE MATERIAL:

Swallowing Do not induce vomiting. Keep patient at rest. Seek immediate medical attention.

Inhalation Move victim to fresh air, call emergency medical care. If not

breathing give artificial respiration. If breathing is difficult give

oxygen.

Skin Contact Remove contaminated clothing and wash affected area with soap and water. Seek Medical advise.

Eye contact Immediately flush eyes with running water for at least 15 minutes.

Get medical care without delay.

## 7) STABILITY & REACTIVITY DATA:

Stability Stable

Hazardous Combustion or Burning may produce carbon monoxide and/or carbon dioxide. When Decomposition products heated it emits irritating fumes, can react vigorously with oxidizing materials.

Hazardous polymerization Will not occur.

Condition to avoid Heat, Sparks, build up of static charge.

## 8) ACCIDENTAL RELEASE/SPILL/LEAK MEASURES:

Steps to be taken if the material is released or spilled :

1. Notify safety personnel of leaks or spills.

2. Eliminate all sources of ignition until area is determined to be free from explosion hazard.

3. Provide adequate ventilation & instruct personnel to use protection against liquid contact and vapor or mist inhalation.

4. Contain spill by diking

5. Small spills could be washed away to the API separator or may be contained by using absorbents.

Large spill after diking should be recovered by pumping (Use explosion proof pump).

6. Stop leak if you can without risk.

7. Use water spray to reduce vapors.

MSDS SAFRASOL D40 UN # 3295

Safra Co. Ltd



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### 9) DISPOSAL CONSIDERATION:

Disposal Method Incinerate in a special furnace or if the quantity is small expose for weathering, abide to local regulations. Other disposal method is burial in approved land fill.

### 10) EXPOSURE CONTROLS/ PERSONAL PROTECTION EQUIPMENT FOR DEALING WITH THE MATERIAL:

Respiratory Protection Use gas mask for respiratory protection.

Ventilation Provide adequate ventilation where operating conditions may create excessive vapors or mists. This product should be confined within closed containers in which case general (mechanical) ventilation should be sufficient. Use explosion proof equipments. Special local ventilation is recommended at points where vapors can be expected

to escape to the work place air.

Hand/body protection Impermeable apron

Eye Protection

Chemical splash goggles. An eye wash fountain and washing facilities to be readily available near handling areas.

### 11) HANDLING & STORAGE:

Handling

Use non sparking tools and explosion proof electrical equipments; Prevent static electric spark by grounding transfer equipment; Avoid breathing vapors; Use with adequate ventilation; Don't get in eyes or skin or clothing, wash thoroughly after handling; Call safety for any problem.

Storage Store in closed containers in a cool, dry and well ventilated area away from source of open flame, heat, strong oxidizing agents and ignitions; Label all containers and sample bottles.

### 12) TOXICOLOGICAL INFORMATION:

Carcinogenicity It has not been identified as a carcinogen by NTP, IARC or OSHA.

Skin Absorption None currently known.

### 13) ECOLOGICAL INFORMATION:

Not established

### 14) TRANSPORT INFORMATION:

Package Type Packed in 200 liters drums every 4 drums on a pallet transported by road trailer trucks. Also transported by road tankers.

Hazard Class or Division 3

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Label & Placard Flammable Liquid & Flammable



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### 15) REGULATORY INFORMATION

Respiratory Protection Not required for regular handling in open area.

Ventilation This product should be confined within closed containers in which case general (mechanical) ventilation should be sufficient. Special local ventilation is recommended at points where vapors can be expected to escape to the work place air.

Hand/body protection PVC or neoprene gloves/Impermeable apron

Eye Protection Eye bath and safety shower. Safety glasses with side shield.

Chemical splash goggles.

Type of Application Used as raw material in paints industry.

### SPECIAL PRECAUTION

Keep away from heat, sparks and flame. Avoid breathing vapors. Use with adequate ventilation. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

