

Salfa TOL [Toluene]

TECHNICAL DATA SHEET



Safety Department Review: 2.5 September 13, 2006 10-QSR-MDS Page: 1 of 4

### 1) MATERIAL IDENTIFICATION:

Safra Product Name Toluene (1202)
Product Trade Name SAFRATOL™

Chemical Symbol C7H8 Aromatic hydrocarbon

Molecular weight 92.15

ID # & CAS # ID # UN 1294 & CAS # 108-88-3 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

Flash Point 40 C

Boiling Range 110.2 – 111.8 °C Typical values(Method ASTM D850)

Vapor Density (Air = 1) 3.14

Specific Gravity ( $H_2O = 1$ ) 0.840 to 0.874 min

Solubility in Water Negligible Vapor Pressure (KPA) 3 @ 20 oC

Evaporation rate 1.72

(Butyl Acetate = 1)

Appearance and odor Clear, bright liquid with Benzol like strong odor.

#### b- CHEMICAL PROPERTIES

Aromatic Content 84 % Vol.
Sulfur Content Free
Copper Corrosion 1 Max.

## 3) COMPOSITION DATA:

Ingredients Min. 84 % Vol. Aromatic toluene

## 4) HEALTH HAZARDS:

TLV 100 PPM

Inhalation Irritating to the respiratory tract. Moderately toxic by inhalation

route. It can cause dizziness and suffocation.

Skin Contact Contact may irritate or burn the skin. Toxic by subcutaneous

route.

Effect of repeated over exposure 
It affects the human central nervous system. It may cause anemia

and enlarged liver.

## 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.

MSDS SAFRATOL UN # 1294



Safety Department Review:2.5 September 13, 2006 10-QSR-MDS Page : 2 of 4

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

> reacted. Vapor form 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.

6) EMERGENCY AND FIRST AID MEASURES UPON EXPOPSURE 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

oxvaen.

Remove contaminated clothing and wash affected area with soap Skin Contact

and water. Seek Medical advise.

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

Get medical care without delay.

7) STABILITY & REACTIVITY DATA:

Stability Stable

Hazardous Combustion or Burning may produce carbon monoxide and/or carbon dioxide. Decomposition products

When 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.

## 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.

**MSDS SAFRATOL** UN # 1294



Safety Department

Review:2.5

September 13, 2006

10-QSR-MDS

Page : 3 of 4

## 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

**Eye Protection** 

Use PVC or Neoprene gloves/impermeable aprons.

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:

Skin Absorption None currently known.

Safety profile Mildly toxic by ingestion and inhalation, irritation can start at 200

## 13) ECOLOGICAL INFORMATION:

Not established

## 14) TRANSPORT INFORMATION:

**Hazard Class** 

ID # & CAS # ID # UN 1294 & CAS # 108-88-3 Label & Placard Flammable Liquid & Flammable

**MSDS SAFRATOL** UN # 1294



**Safety Department** 

Review:2.5

September 13, 2006

10-QSR-MDS

Page : 4 of 4

#### 15) REGULATORY INFORMATION

EU Risk Phrases 11-20

EU Safety Phrases (2-)16-25-29-33

Flammable, Harmful: may cause lung damage if swallowed /Avoid exposure-Obtain special instructions before use- In case of accident or if you feel unwell seek medical advice immediately-Keep away of children reach- Do not breath vapors- Avoid contact with skin- Do not empty into drains- In case of fire use foam/ DCP/ CO2/ Halon- If swallowed do not induce vomiting and show

label or container.

## 16) OTHER INFORMATION:

Precautionary Label Text



DANGER!; EXTREMELY FLAMMABLE LIQUID & VAPOR; VAPOR MAY CAUSE FLASH FIRE, MAY CAUSE SKIN, NOSE, THROAT & LUNG IRRITATION; KEEP AWAY FROM HEAT, SPARKS & FLAME; USE WITH ADEQUATE VENTILATION; KEEP CONTAINER CLOSED; NEVER SIPHON BY MOUTH; DO NOT USE AS SKIN CLEANING AGENT; DO NOT CUT/ WELD ON OR NEAR EMPTY CONTAINERS BEFORE PROPER CLEANING AS THEY CONTAIN PRODUCT

RESIDUE; FIRST AID INSTRUCTIONS

MSDS SAFRATOL UN # 1294