



*Safra*

***NINE*** <sup>TM</sup>

[Solvent Naphtha C9]

*TECHNICAL DATA SHEET*



# MATERIAL SAFETY DATA SHEET

Safety Department

Review:2.5

September 13, 2006

10-QSR-MDS

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## 1) MATERIAL IDENTIFICATION:

Safra Product Name	<b>Safranine™</b>
Product Trade Name	Solvent Naphtha C-9 (1203)
Chemical Symbol	Aromatic Hydrocarbon
Molecular weight	Mixture of C-8, C-9 & C-10 Aromatics.
ID # & CAS #	UN # 1256 & CAS # 64742-95-6
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 min. (ASTM D56)
Boiling Range	158-182 °C
Vapor Density (Air = 1)	0.872 - 0.877
Specific Gravity (H <sub>2</sub> O = 1)	Negligible
Solubility in Water	Min. 28 min. (Saybolt ASTM D156)
Vapor Pressure (KPA)	Clear, bright liquid with characteristic odor..
Evaporation rate (Butyl Acetate = 1)	40 °C min. (ASTM D56)
Appearance and odor	158-182 °C

### b- CHEMICAL PROPERTIES

Aromatic Content	99 % Vol.
Sulfur Content	Free
Copper Corrosion	1 Max.

## 3) COMPOSITION DATA:

Ingredients	Aromatic C-9 ~ 75%; Aromatic C-8 & C-10 ~ 25%;
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## 4) HEALTH HAZARDS:

TLV	100 PPM
Inhalation	Irritating to the respiratory tract. Moderately toxic by inhalation route It can cause dizziness, breathing difficulties and suffocation if inhaled in large quantities.
Skin Contact	May irritate upon repeated or prolonged contact.
Effect of repeated over exposure	No evidence of adverse effects from available information.

## 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.



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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 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 Decomposition products	Burning may produce carbon monoxide and/or carbon dioxide. When heated it emits irritating fumes, can react vigorously with oxidizing materials.
Hazardous polymerization Condition to avoid	Will not occur. 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.
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## 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	Use PVC or Neoprene gloves/Impermeable aprons.
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:

CNS Toxicity	
Skin Absorption	None currently known.
Eye Effect- Human	200 ppm
Inhalation- Human	TCLo:200ppm:Nose, Eye effects, Pulmonary system effects
Safety profile	Mildly toxic by ingestion and inhalation, irritation can start at 200 ppm.

## 13) ECOLOGICAL INFORMATION:

Not established

## 14) TRANSPORT INFORMATION:

Hazard Class	3
ID # & CAS #	UN # 1256 & CAS # 64742-95-6
Label & Placard	Flammable Liquid & Flammable



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## 15) REGULATORY INFORMATION

EU Risk Phrases

10-38-52/53

EU Safety Phrases

62-61

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