

# SAFETY DATA SHEET

## SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: RETARDER Product Code: TN-L1039

Trade Name: TN-L1039

**THE EGYPTIAN LACQUER MANUFACTURING COMPANY**  
**113 FORT GRANGER DRIVE**  
**FRANKLIN, TN 37064**

(P) 615-790-3881

(F) 615-790-3831

EMAIL : EGYPTIAN@EGYPTCOAT.COM

### EMERGENCY TELEPHONE NUMBER

Chemtrec : 1-800-424-9300

Egyptian : 1-615-790-3881

## SECTION 2: HAZARDS IDENTIFICATION

### GHS Ratings:

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Inhalation Toxicity	Acute Tox. 3	Gases>500+<=2500ppm, Vapors>2+<=10mg/l, Dusts&mists>0.5+<=1mg/l
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Carcinogen	2	Limited evidence of human or animal carcinogenicity
Reproductive toxin	2	Human or animal evidence possibly with other information
Aspiration hazard	1	Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity ? 20.5 mm2/s at 40° C.

### GHS Hazards

H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child

### GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
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, lighting, ventilating equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash skin thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection

P281	Use personal protective equipment as required
P311	Call a POISON CENTER or doctor/physician
P321	Specific treatment (see ... on this label)
P331	Do NOT induce vomiting
P362	Take off contaminated clothing and wash before reuse
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists, get medical advice/attention
P370+P378	In case of fire: Use ... for extinction
P405	Store locked up
P403+P233	Store in a well ventilated place. Keep container tightly closed
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container in accordance to licensed waste handling facility.

**Signal Word: Danger**



**SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS**

Chemical Name	CAS number	Weight Concentration %
BUTYL ACETATE	123-86-4	28.02%
TOLUENE	108-88-3	20.10%
XYLENES	1330-20-7	10.19%
2-HEPTANONE	110-43-0	9.44%
4-METHYL-2-PENTANONE	108-10-1	4.68%
2-PROPANOL	67-63-0	4.57%
ETHYLENE GLYCOL MONOPROPYL ETHER	2807-30-9	2.65%

**SECTION 4: FIRST AID MEASURES**

**INHALATION** : Move to fresh air. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately  
**EYE CONTACT** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.  
**SKIN CONTACT** : Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention  
**INGESTION** : If swallowed, do not induce vomiting. Seek immediate medical attention. Call a physician, hospital emergency room, or poison control center

**SECTION 5: FIRE FIGHTING MEASURES**

Flash Point: 4 C (39 F)

LEL: 1.00

UEL: 13.00

**EXTINGUISHING MEDIA** : Water spray. Dry chemical. Carbon Dioxide. Alcohol foam.

**FIRE FIGHTING INSTRUCTIONS** : Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. §

**FIRE EQUIPMENT** : Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus and pro

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**SPILL / LEAK PROCEDURES** : Vapors may cause flash fire or ignite explosively. Clean up: Keep unnecessary people away; isolate hazard area and c

**SMALL SPILLS** : Take up with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.

**LARGE SPILLS** : Dike far ahead of spill for later disposal.

**SECTION 7: HANDLING AND STORAGE**

**HANDLING PRECAUTIONS** : Do not use in small enclosed spaces, such as basements and bathrooms. Vapors can accumulate and explode if ignited.

**STORAGE REQUIREMENTS** : Keep container tightly closed and in a well-ventilated place. Store away from heat and light.

**SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
BUTYL ACETATE 123-86-4	TWA-150 ppm 710 mg/m3 STEL-200 ppm 950 mg/m3	TWA-150ppm STEL-200 ppm	Not Established
TOLUENE 108-88-3	TWA-100 ppm -375 mg/m3 STEL-150 ppm -560 mg/m3	TWA-20 ppm	Not Established
XYLENES 1330-20-7	STEL-150 ppm 655 mg/m3 TWA-100 ppm 435 mg/m3  TWA-100 ppm 435 mg/m3 STEL-125 ppm 545 mg/m3	TWA-100 ppm STEL-150 ppm  TWA-20 ppm	Not Established
2-HEPTANONE 110-43-0	Not Established	Not Established	Not Established
4-METHYL-2-PENTANONE 108-10-1	TWA-50 ppm 205 mg/m3	STEL-75 ppm TWA-20 ppm	Not Established
2-PROPANOL 67-63-0	TWA 980 mg/m3 400 ppm STEL-500 ppm 1225 mg/m3	STEL 400 ppm TWA 200 ppm	Not Established
ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	Not Established	Not Established	Not Established

**VENTILATION** : Use only with adequate ventilation to prevent build-up of vapors. Open all windows and doors. Use only with a cross ventilation of movi

Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure.

**HAND PROTECTION** : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Stanc

**EYE PROTECTION** : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying

**SKIN PROTECTION**: Wear suitable protective clothing.

**RESPIRATORY EQUIPMENT** : Where excessive vapor, mist, or dust may result, use NIOSH approved respiratory protection equipment .

**CONTAMINATED GEAR** : Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use.  
Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<p><b>Appearance:</b> Liquid <b>Vapor Pressure:</b> 185 mmHg <b>Vapor Density:</b> 3.9 <b>Density:</b> 0.86 <b>Freezing point:</b> -95 C <b>Boiling range:</b> 82 - 153°C <b>Evaporation rate:</b> 7.7 <b>Explosive Limits:</b> 1% - 13%</p> <p><b>Autoignition temperature:</b> 256°C <b>Grams VOC less water:</b> N/A <b>% Volume Solids</b> 0.00</p>	<p><b>Odor:</b> Solvent <b>Odor threshold:</b> N/A <b>pH:</b> N/A <b>Melting point:</b> -95 C <b>Solubility:</b> Insoluble <b>Flash point:</b> 39°F,4°C <b>Flammability:</b> Flammable <b>Partition coefficient (n-octanol/water):</b> N/A <b>Decomposition temperature:</b> N/A <b>% Weight Solids</b> 0.00</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**SECTION 10: STABILITY AND REACTIVITY**

STABLE

**INCOMPATIBILITIES** : Incompatible with strong oxidizing agents, strong caustics, hydrogen peroxide, and nitrates

**HAZARDOUS DECOMPOSITION** : Decomposition may produce carbon monoxide; carbon dioxide; formaldehyde; and unidentified organic compounds in

Hazardous polymerization will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Mixture Toxicity**

Inhalation Toxicity LC50: 9mg/L

**Component Toxicity**

123-86-4	BUTYL ACETATE Inhalation LC50: 1,800 ppm (rat)
110-43-0	2-HEPTANONE Oral LD50: 1,600 mg/kg (RAT) Dermal LD50: 5,000 mg/kg (RAT) Inhalation LC50: 17 mg/L (RAT)
108-10-1	4-METHYL-2-PENTANONE Oral LD50: 2,080 mg/kg (rat) Inhalation LC50: 16 mg/m3 (rat)
2807-30-9	ETHYLENE GLYCOL MONOPROPYL ETHER Oral LD50: 3,089 mg/kg (RAT) Dermal LD50: 1,337 mg/kg (RABBIT) Inhalation LC50: 1,530 ppm

**PRIMARY ROUTES OF ENTRY :**

Inhalation      Skin Contact      Eye Contact      Ingestion

**PRIMARY TARGET ORGANS :**

Eyes      Liver      Reproductive System      Skin

**Effects of Overexposure**

CAS NumberDescription% WeightCarcinogen Rating

None

N/A

**INHALATION ACUTE EXPOSURE EFFECTS** : Vapor harmful. May cause dizziness; headache; watering of eyes; irritation of respiratory tract; weakness

**INGESTION ACUTE EXPOSURE EFFECTS** : May be fatal. May cause dizziness; headache; nausea; vomiting; burning sensation in mouth, throat, and s

**SKIN CONTACT ACUTE EXPOSURE EFFECTS** : May be absorbed through the skin. May cause Irritation; numbness in the fingers and arms; drying of :

**EYE CONTACT ACUTE EXPOSURE EFFECTS** : This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulceration

**INGESTION ACUTE EXPOSURE EFFECTS** : Reports have associated repeated and prolonged overexposure to solvents with neurological and other ph

SECTION 12: ECOLOGICAL INFORMATION
------------------------------------

**Component Ecotoxicity**

## BUTYL ACETATE

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 100 mg/l - 96 h  
 Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 72.8 - 205.0 mg/l - 24 h  
 other aquatic invertebrates  
 EC50 - Daphnia - 44 mg/l - 48 h  
 Toxicity to algae EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - 674.7 mg/l - 72 h

## TOLUENE

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 7.63 mg/l - 96 h  
 NOEC - Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d  
 Toxicity to daphnia and other aquatic invertebrates  
 EC50 - Daphnia magna (Water flea) - 8.00 mg/l - 24 h  
 Immobilization EC50 - Daphnia magna (Water flea) - 6 mg/l - 48 h  
 Toxicity to algae EC50 - Chlorella vulgaris (Fresh water algae) - 245.00 mg/l - 24 h  
 EC50 - Pseudokirchneriella subcapitata (green algae) - 10.00 mg/l - 24 h

## 2-HEPTANONE

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 126 - 137 mg/l - 96 h  
 Toxicity to daphnia and other aquatic invertebrates  
 semi-static test EC50 - Daphnia magna (Water flea) - > 90.1 mg/l - 48 hAldrich - W254401 Page 7 of 8  
 Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata (Selenastrum capricornutum) - 98.2 mg/l - 72 h (OECD Test Guideline 201)

## 4-METHYL-2-PENTANONE

Toxicity to fish LC0 - Leuciscus idus melanotus - 480 mg/l - 48 h  
 Toxicity to daphnia and other aquatic invertebrates  
 EC50 - Daphnia magna (Water flea) - 1,550 - 3,623 mg/l - 24 h  
 Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - 980 - 2,000 mg/l - 48 h

## 2-PROPANOL

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h  
 Toxicity to daphnia and other aquatic invertebrates  
 EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h  
 Immobilization EC50 - Daphnia magna (Water flea) - 6,851 mg/l - 24 h  
 Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l - 72 h  
 EC50 - Algae - > 1,000.00 mg/l - 24 h

ETHYLENE GLYCOL  
MONOPROPYL ETHER

Toxicity to fish static test LC50 - Pimephales promelas (fathead minnow) - >  
5,000 mg/l - 96 h  
Toxicity to daphnia and other aquatic invertebrates  
static test LC50 - Daphnia (water flea) - > 5,000 mg/l - 48 h  
Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - > 100 mg/l -  
72 h  
(OECD Test Guideline 201)

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD** : Dispose of in accordance with all applicable local, state, and federal regulations.

**SECTION 14: TRANSPORT INFORMATION**

**AGENCY UN NUMBER PROPER NAME HAZARD CLASS PACKAGE GROUP**

US DOT 1263 PAINT RELATED FLAMMABLE LIQUID  
3 II

**SECTION 15: REGULATORY INFORMATION**

**CALIFORNIA PROPOSITION 65** : This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer.

Right-to-know for NJ, PA & MA:

123-86-4 BUTYL ACETATE

Right-to-know for NJ, PA & MA:

108-88-3 TOLUENE

Right-to-know for NJ, PA & MA:

1330-20-7 XYLENES

Right-to-know for NJ, PA & MA:

110-43-0 2-HEPTANONE

Right-to-know for NJ, PA & MA:

108-10-1 4-METHYL-2-PENTANONE

**Country**

**Regulation**

**All Components Listed**

108-88-3 TOLUENE 20.1%

1330-20-7 XYLENES 10.2%

**SECTION 16: OTHER INFORMATION**

**Hazardous Material Information System (HMIS)**

**National Fire Protection Association (NFPA)**

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	2
PERSONAL PROTECTION	C

**HMIS & NFPA Hazard Rating**

**Legend**

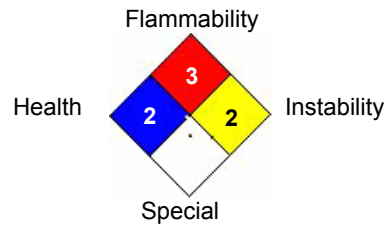
\* = Chronic Health Hazard

0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH



License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all-inclusive and

Reviewer Revision

Date Prepared: 1/27/2017