

Product name: PEROXAN APO-75

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## 1. PRODUCT AND COMPANY IDENTIFICATION

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Product name: PEROXAN APO-75

Chemical name: tertiary-Amyl peroxy-2-ethylhexanoate

Supplier: Pergan Marshall, LLC  
710 – B Bussey Road  
Marshall, TX 75670

Emergency telephone number: Pergan Marshall Emergency Response 903-938-5141  
CHEMTREC (24 hours) 800-424-9300

For MSDS, Product Safety, or regulatory inquiries, call: 903.934.7716

Customer Service: 877-2-Pergan (877-273-7426) or 903.934.7763

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

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COMPONENT	CAS#	CONCENTRATION
tertiary-Amyl peroxy-2-ethylhexanoate	686-31-7	75%
Butyl benzyl phthalate	85-68-7	25%

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## 3. HAZARDS IDENTIFICATION

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### EMERGENCY OVERVIEW

**DANGER! REFRIGERATED STORAGE REQUIRED - STORE BELOW 15°C (59°F)**

REFRIGERATED STORAGE REQUIRED. PROTECT FROM HEAT.

MAY BE HARMFUL OR FATAL IF SWALLOWED.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY BE IRRITATING OR CORROSIVE TO THE SKIN AND/OR EYES.

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## 4. FIRST AID MEASURES

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### Swallowing

Obtain medical attention. If patient is fully conscious, rinse mouth with water. Give water to drink. Drink water in small sips. (Diluting effect) Never give anything by mouth to an unconscious person. Vomiting may cause aspiration into the lungs resulting in chemical pneumonia.

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**Skin**

Remove contaminated clothing. Wash skin with soap and water. If irritation persists or if contact has been prolonged, obtain medical attention.

**Inhalation**

Remove to fresh air. If exposure is severe, hospitalize and observe. If breathing has stopped, give artificial respiration.

**Eye contact**

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention immediately. May cause blindness.

**Notes to physician**

ROUTES OF ENTRY: Eyes, skin, ingestion, inhalation, mist. TARGET ORGANS: Eyes, skin, respiratory system.

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## 5. FIRE-FIGHTING MEASURES

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**Flash point:** 79 °C

**NFPA CLASSIFICATION**

Health: 0	Flammability: 2	Reactivity: 2	Special provisions: -
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**Special fire fighting procedures**

Evacuate all personnel from danger area. Use water spray to cool fire-exposed containers and structures.

**Special protective equipment for firefighters**

Body covering protective clothing. Self-contained breathing apparatus.

**Extinguishing media**

Suitable:

- water fog
- foam
- CO2
- dry chemical
- dry sand

**Unusual fire and explosion hazards**

Other harmful gases and vapors may be formed in addition to the major combustion products of carbon dioxide and carbon monoxide. There is a potential for an explosive decomposition in a fire situation. Once ignited, this product will burn vigorously and with acceleration.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Personal precautions**

Avoid contact with eyes and skin. Avoid contact with liquid and vapors. Provide sufficient ventilation.

**Environmental precautions**

Avoid runoff to sewers or waterways. This product has limited solubility in water.

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**Methods for cleaning up**

Stop the leak if it can be done without risk.

Dike to contain spill.

Absorb on inert material such as sand, earth, vermiculite.

Cover by foam or wet with small quantities of water.

Sweep up using non-sparking equipment.

Collect in a suitable container for disposal.

Storage material: Polypropylene, polyethylene

Dispose of waste material in compliance with all federal, state, and local regulations.

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## **7. HANDLING AND STORAGE**

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### **HANDLING**

**Handling precautions**

Keep containers tightly closed to prevent contamination. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when handling. Wear recommended personal protection equipment. Remove contaminated clothing and wash before reuse. Use spark-proof tools and explosion-proof equipment.

**Other precautions**

**DANGER!**

This product must be stored under refrigerated conditions. Loss of refrigeration can lead to uncontrolled exothermic reaction.

Store containers in a well-ventilated area. Open them cautiously, in case they may be under slight pressure. Have good ventilation and suitable protective equipment in areas where containers will be opened.

Keep away from heat, sparks and flame.

Do not expose to direct sunlight.

### **STORAGE**

**Storage requirements**

Regulated as a temperature controlled Organic Peroxide, Class 5.2, for storage and handling. **DANGER!**

**REFRIGERATED STORAGE REQUIRED** Store in original containers away from incompatible materials, direct sunlight, flames, and all sources of heat.

**Further information on storage**

Maximum Storage Temperature: 20°C (68°F). In order to maintain the product's original manufactured assay in long term storage, a lower storage temperature of below 10°C (50°F) is strongly recommended. Shelf Life:

(Calculated from half-life data in benzene solution) Estimate 7 months at which 95% of the original manufactured assay remains when stored at or below 10 °C (50 °F).

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## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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### **PERSONAL PROTECTION**

**Respiratory protection**

None required in normal use. Self-contained breathing apparatus may be needed if product is used in a confined or poorly ventilated area.

**Hand protection / protective gloves**

Neoprene type gloves.

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**Eye protection**

Wear suitable eye protection.

Faceshield, Monogoggles, Contact lenses should not be worn.

**Skin protection**

Wear protective clothing.

Apron/boots of neoprene if risk of splashing

**ENGINEERING CONTROLS**

**Ventilation**

General (mechanical) room ventilation is expected to be satisfactory.

**EXPOSURE LIMITS**

No exposure limits have been established

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE**

**Physical state**

Liquid

**Color**

Colorless to light yellow

**OTHER PROPERTIES**

**Melting point**

< -15 °C at STP unless specified below.

**Specific gravity (H<sub>2</sub>O=1)**

0.944 at 15 °C

**Solubility in water**

< 1 g/l

**Flash point**

79 °C

Method: Setaflash closed cup ASTM D 3828

**Kinematic viscosity**

No data available.

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**10. STABILITY AND REACTIVITY**

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**Stability:** DANGER! REFRIGERATED STORAGE REQUIRED This product is stable only when stored at, or below, the recommended maximum temperature. (see section 7)

**SADT**

Value: 45 °C

Remark: : 35# Package

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**Stability - Conditions to avoid**

Contamination with ANY foreign substance,  
Exposure to heat.  
Loss of temperature control  
Protect from direct sunlight.

**Incompatible materials**

Strong acids.  
Reducing agents.  
Accelerators  
Promoters  
Other reactive chemicals

**Hazardous combustion products**

Carbon monoxide.  
Carbon dioxide.  
Hydrocarbons.

**Hazardous polymerization:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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### SWALLOWING

**Acute effects**

Harmful or fatal if swallowed.

**Test results**                      Test substance: => 95% Peroxide

Acute toxicity:                      LD50 - Rat  
Result: > 5,000 mg/kg

### SKIN ABSORPTION

**Acute effects**

May cause eye and skin irritation.

**Test results**

Acute toxicity:                      Test substance: => 95% Peroxide  
LD50 - Rabbit  
Result: > 2,000 mg/kg

### INHALATION

**Acute effects**

May be harmful by inhalation.

**Test results**

Acute toxicity:                      Remark: No data available.

### SKIN CONTACT

**Acute effects**

May cause allergic skin reaction.

**Test results**

Skin irritation:                      Species: Rabbit  
Result: No data available.

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## **EYE CONTACT**

### **Acute effects**

May cause chemical burns of the eye.

### **Test results**

Eye irritation: Species: Rabbit  
Result: No irritation

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## **12. ECOLOGICAL INFORMATION**

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This product is stable in water, and can be mechanically separated from water. The water may be suitable for disposal in a biological waste water treatment plant.

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## **13. DISPOSAL CONSIDERATIONS**

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### **US waste**

Dispose of waste material in compliance with all federal, state, and local regulations. Hazardous waste identification number D003, characteristic of reactivity (see 40CFR261.23).

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## **14. TRANSPORT INFORMATION**

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### **DOT Classification**

**Proper shipping name:** ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (TERT-AMYL PEROXY-2-ETHYLHEXANOATE, =< 100%)  
**Class:** 5.2  
**UN ID #:** UN3115  
**Packing group:** II

Control Temperature: +20°C (68°F); Emergency Temperature: +25°C (77°F)

### **IMDG Classification**

This product is regulated by IMDG.

**Proper shipping name:** ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (TERT-AMYL PEROXY-2-ETHYLHEXANOATE, =< 100%)  
**Class:** 5.2  
**UN ID #:** UN3115  
**Packing group:** II

Control Temperature: +20°C (68°F); Emergency Temperature: +25°C (77°F)

### **ICAO Classification**

FORBIDDEN BY AIR.

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## **15. REGULATORY INFORMATION**

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Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

**Product name: PEROXAN APO-75**

Components present in this product at a level which could require reporting under the statute are:  
This product does not contain any chemical listed in Section 313 at or above de minimis concentrations.

**New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)****Chemical name**

tertiary-Amyl peroxy-2-ethylhexanoate  
Butyl benzyl phthalate

**CAS#**

686-31-7  
85-68-7

**New Jersey TS Number****CHEMICAL INVENTORY**

Canada: The ingredients of this product are on the DSL.

Europe: The ingredients of this mixture are on the EINECS inventory.

United States: The ingredients of this product are on the TSCA inventory.

Australia: The ingredients of this product are on the AICS inventory.

**16. OTHER INFORMATION****RECOMMENDED USES AND RESTRICTIONS**

Dust generated from the sanding or finishing of certain types of hardened resins can spontaneously combust if stored or disposed of improperly. Consult your resin manufacturer for proper dust storage and disposal.

**FURTHER INFORMATION**

MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand)  
CONSULT REGULATORY SPECIALIST.

**HMIS RATING**

Health: 1	Flammability: 2	Reactivity: 2	PPI: -
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**LEGEND**

STP	Standard temperature and pressure
W/W	Weight/Weight
0 (HMIS)	Minimal hazard
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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