

# Material Safety Data Sheet



**Product:** VP- 160A  
Print Date: 29.03.10

## 1. Identification of the substance/preparation and of the company/undertaking

**Commercial product name:** VP-160A

**Producer:** United Initiators Pty Ltd  
20-22 McPherson Street  
Banksmeadow NSW 2019 Australia

**Emergency information (phone number):** 1800 023 488

**Poisons Schedule:** Not allocated

**Product use:** chemicals for industrial use

## 2. Hazards identification

**Classified as hazardous according to the criteria of NOHSC**  
**Classified as dangerous good according to the ADG Code**

### **Special hazards (concerning man and environment):**

May cause fire  
Harmful in contact with skin and if swallowed  
Toxic by inhalation  
Causes burns  
Harmful: Danger of serious damage to health by prolonged exposure through inhalation and if swallowed  
Toxic for aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3. Composition/information on ingredients

### **Product description:**

Cumene Hydroperoxide , super active mixture

### **Chemical characterisation (preparation):**

Ethyl Acetoacetate approx 40% Xi, R36  
CAS-no.: 141-97-9 EC-no.: 205-516-1

Cumenehydroperoxide ,approx 35% O, R7; T, R23; Xn, R21/22-48/20/22; C,R34; N, R51/53  
CAS-no.: 80-15-9 EC-no.:201-254-7

tert-Butyl peroxybenzoate , approx. 20%, E,R2; O, R7; Xi, R38  
CAS-no.: 614-45-9 EC-no.: 210-382-2

Additional information: The information shown on the labels is given under heading 15

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## 4. First aid measures

### **General advice:**

Take off immediately all contaminated clothing.

### **First aid external:**

After skin contact: Wash skin with soap and plenty of water. Seek medical advice.

In case of contact with eyes, rinse immediately with plenty of water. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Then seek medical advice.

### **First aid internal:**

If inhaled: Bring victim to the fresh air. In doing so, observe self-protection. Seek medical advice immediately.

If swallowed: Rinse mouth thoroughly with water and then drink copious amounts of water. Do NOT induce vomiting. Seek medical advice immediately.

## 5. Fire-fighting measures

### **Suitable extinguishing media:**

Water mist, foam, dry powder (for small fires)

### **Unsuitable extinguishing media:**

Water jet

### **Additional advices:**

In case of fire and decomposition formation of inflammable/explosive, irritant, corrosive, harmful/ toxic gases and vapours possible.

### **Special protective equipment for fire-fighters:**

Do not breathe fire gases. Wear self-contained breathing apparatus and fully protective clothing.

### **Additional information:**

Fight the blaze from a safe distance. Cool down containers with water.

Do not dispose fire-fighting water into the sewerage system!

Contaminated areas, buildings and equipment must not be used until they are properly decontaminated.

**Hazchem Code:** 2WE

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## 6. Accidental release measures

### **personnel protective measures:**

Avoid contact with the product. Do not breathe vapour/aerosol. Wear suitable protective clothing, gloves, eye/ face protection and suitable respiratory protection. Ensure good ventilation and exhaust ventilation.

### **Environmental protective measures:**

Avoid release to the environment. Product must not be disposed of into sewerage system!

### **Methods for cleaning up:**

Take/ pick up cautiously (e.g. with a clean PE-shovel). Avoid friction. Alternatively or in addition, soak up with inert absorbent material (e.g. Vermiculit, clean sand).

### **Additional information:**

Keep away from sources of ignition (e.g. sparks, flames) - No smoking.

Never add other substances or other waste to product residues. Bring product residues to a safe place, eliminate immediately in accordance with locally valid waste disposal regulations.

Contaminated areas, buildings and equipment must not be used until they are properly decontaminated.

## 7. Handling and storage

### **Safe handling advice:**

The product should be stored in the closed supply container at temperatures between +10 und +30°C. Keep in a well-ventilated place. Keep away from ignition and heat sources (e.g. direct sun light). Keep separated from other dangerous and incompatible substances. Avoid contamination with e.g. rust, dust, ash (danger of decomposition).

Avoid contact with skin, eyes and clothing. At the end of work and before breaks, hands should be washed. Prophylactic skin protection recommended.

Use with adequate ventilation. Suction off product vapours at their point of generation. Avoid formation of aerosols. Do not breathe vapour/ aerosol. Wear suitable respiratory protection if necessary.

Peroxide residues must not be returned into the original container, danger of decomposition!

### **Protection against fire and explosion:**

Under recommended storage conditions in the original container no explosion risk. Flammable liquid.

Product burns . Solvent vapours are heavier than air.

Formation of ignitable/ explosive vapour-air-mixtures possible. Keep away from sources of ignition -

No smoking. Take precautionary measures against static discharges.

In case of decompositon without flames, explosion risk exists due to developing gas-air-mixture.

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## 8. Exposure controls / personal protection

The National Occupational Health and Safety Commission has not established an exposure standard for Cata 2000

### **Personal protective measures:**

Do not eat, drink or smoke while handling the product.

Prophylactic skin protection is recommended.

At the end of work and before breaks, hands should be washed.

Avoid contact with eyes and skin.

### **Respiratory protection:**

To reduce potential for inhalation exposure (short time or small exposure) use an approved organic vapour respirator with dust, mist and fume filter. Recommended: Filter class A

Where exposure potential necessitates a higher level of protection use a self-contained breathing apparatus.

Respiratory protection should comply with AS 1716 and be selected in accordance with AS 1715

### **Hand protection:**

Protective gloves

Suitable type of material Butyl rubber; breakthrough time of the glove material  $\geq$  8 hours.

Hand protection should comply with AS 2161

### **Eye protection:**

Chemical goggles and/ or full face shield. Eye protection should comply with AS 1337 and be selected in accordance with AS 1336

### **Body protection:**

Skin contact with this product should be prevented by the use of suitable protective clothing

## 9. Physical/chemical properties

<b>Form/ physical state:</b>	liquid
<b>Color:</b>	slightly yellow
<b>Smell:</b>	n.d.a
<b>Meltingpoint:</b>	n.a (decomposition)
<b>Boilingpoint:</b>	n.a (decomposition)
<b>Flash point:</b>	n.a (decomposition)
<b>Ignition temperature:</b>	n.d.a
<b>Explosion limits:</b>	n.d.a
<b>Vapour pressure:</b>	n.d.a
<b>Density:</b>	1.04g/cm <sup>3</sup> at 20°C
<b>Solubility:</b>	insoluble in water
<b>pH:</b>	n.d.a
<b>Partition coefficient (log Pow):</b>	n.d.a
<b>Viscosity:</b>	n.d.a
<b>Refraction index:</b>	n.d.a

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## 10. Stability and reactivity

### **Conditions to avoid:**

Keep away from sources of ignition (e.g. sparks, flames) and heat.  
At temperatures above 80°C self-accelerating decomposition possible.

### **Materials to avoid:**

Keep away from strong acids, bases, heavy metal salts, reducing agents and accelerators.  
Contaminants (e.g. rust, dust, ash). Combustible materials.

### **Hazardous decomposition products:**

In case of fire and decomposition formation of inflammable, irritant, corrosive, harmful/ toxic gases and vapours.

### **Thermal decomposition:**

SADT (UN-Test H.4): 55°C

## 11. Toxicological information

### **Cumenehydroperoxide (CUHP):**

LD50(oral, rat): 382 mg/kg (CUHP-73%: Literature data)

LC50 (inhalation, rat, 4h): 1,38 mg/l (Literature data)

Harmful in contact in contact with skin and if swallowed.

Toxic by inhalation.

### **tert-Butyl peroxybenzoate (TBPB):**

LD50 (oral, rat): >2000mg/kg

LD50 (dermal, rabbit): >2000mg/kg.

Inhalation: No mortality (rats, 4h, saturated vapour).

TBPB is not sensitizing

Ames- Test: not mutagenic in Ames- test (micronucleus test)

## 12. Ecological information

Avoid release to the environment. In case of spillage or leakage appropriate measures have to be taken immediately.

### **Cumenehydroperoxide (CUHP):**

Toxic for aquatic organisms, may cause long-term adverse effects in the aquatic environment

### **tert-Butyl peroxybenzoate (>98%):**

Fish-Toxicity (P. reticulata): LC50 = 8,6mg/l (96h).

Algae-Toxicity (S. capricornutum): EC50 = 1,3mg/l (72h).

Activated sludge respiration inhibition test: EC50 = 43mg/l.

Biodegradability (Closed Bottle Test; OECD 301D): Readily biodegradable.

## 13. Disposal considerations

Eliminate in accordance with locally valid waste disposal regulations.

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## 14. Transport information

### Transport by Road:

UN-no.: 3103  
Class: 5.2                      Classificationcode: P1                      ADR/ RID

Organic Peroxide Type C, liquid, [contains: tert-Butyl peroxybenzoate]

**Hazchem Code: 2WE**

### Sea Transport:

UN-no.: 3103  
IMDG-Class: 5.2  
EmS: F-J S-R  
Packaging group (PG): II  
Marine Pollutant: yes  
Proper Shipping Name:  
Organic Peroxide Type C, liquid, [contains: tert-Butyl peroxybenzoate]

### Air transport:

UN-no.: 3103  
ICAO/IATA-class: 5.2  
Packaging group (PG): II  
  
Proper Shipping Name:  
Organic Peroxide Type C, liquid, [contains: tert-Butyl peroxybenzoate]

## 15. Regulatory information

### Symbol (s):

**O** – Oxidizing                      **T** –Toxic                      **N**- Dangerous to the environment

### R-phrases (s):

R7                      May cause fire  
R21/22                      Harmful in contact with skin and if swallowed  
R23                      Toxic by inhalation  
R34                      Causes burns  
R48/20/22                      Harmful: Danger of serious damage to health by prolonged exposure through inhalation and if swallowed  
R51/53                      Toxic for aquatic organisms, may cause long-term adverse effects in the aquatic environment

### S-phrases (s):

S3/7                      Keep container tightly closed in a cool place  
S14                      Keep away from strong acids, bases, heavy metal salts and reducing agents  
S36/37/39                      Wear suitable protective clothing, gloves and eye/face protection  
S45                      In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)  
S50                      Do not mix with accelerators and promoters  
S61                      Avoid release to the environment. Refer to special instructions/ Safety data sheets

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### 16. Other information

Abbreviations: n.a = not applicable; n.d.a = no data available

MSDS 1, 05.03.10

The above information is accurate to the best of our knowledge and they are not meant to guarantee specific properties of the product. The existing regulations are to be observed by our customers at their own responsibility.