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## MATERIAL SAFETY DATA SHEET

MSDS 602-B

PAGE 1 OF 7

### 1. Product and Company Identification

- 1.1 PRODUCT NAME:** THC 901 CURATIVE
- 1.2 USE OF PRODUCT** Curative for THC 901 neutral base.
- 1.3 SUPPLIER:** Equus Industries Ltd  
Sheffield Street  
Riverlands Industrial Estate  
Blenheim, Marlborough, New Zealand  
Telephone: +64 3 578 0214  
Fax: +64 3 578 0919
- 1.4 EMERGENCY CONTACT:** **National Poison Centre**  
**Telephone: 0800 764 766**

Information about Safety Data Sheet: Telephone: +64 3 578 0214 8:00am – 6:00pm Mon - Fri

### 2. Hazards Identification

- 2.1 Classification:**  
Dangerous Goods – classification according to New Zealand Dangerous Goods Code.
- 2.2 Risk & Safety Phrases:**  
R10,20,21,22,36,37,38  
S1/2,23,26,37,39,

The full text of each R & S phrases are listed in Section 16.

### 3. Composition/Information on Ingredients

- 3.1 Chemical Characterization (Preparation):**  
This product is a preparation.



### 3.2 Hazardous Ingredients:

CAS NO.	COMPONENT	CONCENTRATION %	CLASSIFICATION
1330-20-7	Xylene	10-30%	R10/20/21/38
1330-78-5	Tricresyl phosphate	10-30%	R21/22/51/53
100-41-4	Ethylbenzene	3.0-7.0%	R11/20/36/37/38

3.3 Only ingredients, additives and impurities which are classified and contribute to the classification of the product are included in this section.

## 4. First Aid Measures

Get medical attention for any significant over exposure.

### 4.1 After Inhalation:

Leave area to breathe fresh air. Avoid further over exposure. If symptoms persist, seek medical attention.

### 4.2 After Skin Contact:

Clean area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.

### 4.3 After Eye Contact:

Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention if irritation persists.

### 4.4 After Ingestion:

Call doctor immediately. Do not induce vomiting unless advised by a doctor.

### 4.5 Advice to Doctor:

Treat symptomatically.

## 5. Fire Fighting Measures

### 5.1 Suitable Extinguishing Media:

If water fog is ineffective, use carbon dioxide, dry chemical or foam.

### 5.2 Protective Equipment:

Use accepted fire fighting techniques. Wear full fire fighting protective clothing, including self contained breathing apparatus (SCBA).

### 5.3 Specific Hazards:

Product may ignite if heated in excess of its flash point. Vapours may migrate to sources of ignition.

### 5.4 Combustion Products:

Fumes and smoke. Carbon monoxide, carbon dioxide, and nitrogen oxides can form.



## **6. Accidental Release Measures**

### **6.1 Preliminary Action and Precautions:**

- 6.1.1 Eliminate every possible source of ignition.
- 6.1.2 Evacuate all personnel immediately and ventilate area.
- 6.1.3 Avoid breathing vapour and contact with skin, eyes and clothing.
- 6.1.4 Wear recommended personal protective equipment.
- 6.1.5 Shut off leaks if possible without risk.
- 6.1.6 Dike in the spilled product as much as possible with inert material (i.e. sand, earth).
- 6.1.7 Prevent entry of product into sewers, storm water drains and open bodies of water.
- 6.1.8 Collect the spillage in suitable, closable containers for re-use or disposal.
- 6.1.9 Clean up all spills as soon as possible, using an inert absorbent material and dispose of as hazardous waste.

## **7. Handling and Storage**

### **7.1 Handling:**

- 7.1.1 Prevent inhalation of vapour, ingestion and contact with skin, eyes and clothing.
- 7.1.2 Keep container closed when not in use. Precautions also apply to emptied containers.
- 7.1.3 Change soiled work clothes frequently.
- 7.1.4 Clean hands thoroughly after handling.
- 7.1.5 Do not smoke, weld, generate sparks, or use flame near container. Vapours may migrate to sources of ignition.

### **7.2 Storage:**

- 7.2.1 Store under dry warehouse conditions.
- 7.2.2 Store away from sources of ignition, (i.e. sparks, open flames, heat etc.)
- 7.2.3 Store away from acids.
- 7.2.4 Keep containers tightly closed at all times.



## 8. Exposure Controls and Personal Protection Equipment

### 8.1 Exposure Limits:

Xylene	Cas – 1330-20-7	TLV/TWA (ACGIH): 100ppm (435mg/m <sup>3</sup> ) STEL (ACGIH): 150ppm (650mg/m <sup>3</sup> )
Ethylbenzene	Cas – 100-41-4	TLV/TWA (ACGIH): 100ppm (435mg/m <sup>3</sup> ) STEL (ACGIH): 125ppm (540mg/m <sup>3</sup> )

### 8.2 Exposure Controls:

#### 8.2.1 Exposure Controls in the Work Place:

Use local exhaust when the general ventilation is inadequate.

#### 8.2.2 Personal Protection Equipment

Respiratory Protection – Wear appropriate, properly fitted NIOSH/MSHA, approved organic vapour or supplied air respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS.

Hand Protection – Use suitable impervious gloves.

Eye Protection – Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.

Protective Measures - Use professional judgment in the selection, care and use. Inspect and replace equipment at regular intervals.

## 9. Physical and Chemical Properties

### 9.1 General Information:

Physical State/Form	Liquid
Odour/Colour	Amine/Yellow
pH	Not available
Vapour Pressure	Not available
Vapour Density	Heavier than air
Melting Point/Range	Not available
Freezing Point	Not available
Boiling Point/Range	Not available
Flash Point	41 <sup>o</sup> C (Setaflash closed cup)
Water Solubility	Negligible
Evaporation Rate	Not available
Specific Gravity	0.98
% Volatile Weight	17 %
Explosion Limits	Not available
VOC	107 g/l

## 10. Stability and Reaction

### 10.1 General Information:

This material is stable when properly handled and stored. No hazardous reactions are known.

### 10.2 Conditions to Avoid:

Welding arcs, flames or other high temperature sources.



**10.3 Material to Avoid:**

Acids.

**10.4 Hazardous Decomposition Products:**

None expected when material properly handled and stored. Thermal decomposition see section 5.

<b>11. Toxicological Information</b>
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**11.1 Emergency Overview:**

May cause slight irritation to the respiratory system. Leave area to breathe fresh air. Avoid further over exposure. If symptoms persist, get medical attention.

**11.2 Acute toxicity:**

Ethylbenzene:

Oral LD 50: (Rat) 3,500 mg/kg

Dermal LD50: (Rabbit) 17,800 mg/kg

Xylene:

Oral LD 50: (Rat) 3,523 - 8,600 mg/kg

Inhalation LC 50: (Rat) 6,350 mg/l

**11.3 Skin Contact:**

May cause moderate irritation. May cause sensitization resulting in irritation, itching and redness.

**11.4 Eye Contact:**

Vapours and/or liquid may cause tearing, blurred vision, severe irritation and possible chemical burns.

**11.5 Ingestion:**

May cause irritation to the mouth, throat and stomach. May cause chemical burns to stomach, mouth, nose and throat.

**11.6 Inhalation:**

May cause slight irritation to the respiratory system.

**11.7 Chronic effects:**

Prolonged and repeated over exposure to amines may cause liver and kidney damage based on animal studies. Prolonged or repeated exposure to xylene may cause defatting, drying and irritation of the skin, dermatitis, central nervous system (CNS) effects, heart muscle sensitization and arrhythmia, hearing loss and brain, liver, kidney damage. Xylene over exposure may affect fetal development. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Fillers are encapsulated and not expected to be released from product under normal conditions of use. Prolonged or repeated exposure to mineral spirits (stoddard solvent) may cause defatting, drying and irritation of the skin, dermatitis, central nervous system (CNS) effects and adverse liver, kidney and lung effects.

**11.8 Aggravated Medical Conditions:**

Pre existing eye, skin, and respiratory disorders may be aggravated by exposure.

**11.9 Target Organs:**

Skin, eye, lung.



## 12. Ecological Information

- 12.1 Environment Protection:**  
Prevent product from entering drains, sewers and waterways.
- 12.2 Ecotoxicity:**  
Data not available.
- 12.3 Persistence and degradability:**  
Data not available.
- 12.4 Bioaccumulative Potential:**  
Data not available.

## 13. Disposal Consideration

- 13.1 Material**  
Dispose of according to regulations by incineration in a special waste incinerator or landfill at a permitted facility in accordance with local/national regulations.

## 14. Transport Information

- 14.1 Land Transport:**
- Road: Flammable liquid, Corrosive N.O.S (Class:3/sub risk 8 , GP III, HAZ CHEM 3WE)
- Rail: Flammable liquid, Corrosive N.O.S (Class:3/sub risk 8 , GP III, HAZ CHEM 3WE)
- 14.2 Sea Transport:** Flammable liquid, Corrosive N.O.S  
(Class:3.3/sub risk 8 , GP III, HAZ CHEM 3WE)
- 14.3 Air Transport:** Flammable liquid, Corrosive N.O.S  
(Class:3/sub risk 8 , GP III, HAZ CHEM 3WE)
- 14.4 Postal and Courier Service:** Can not be transported by courier/postal service.

## 15. Regulatory Information

This product is hazardous.

## 16. Other Information

- 16.1 Full Text of R-Phrases Contained in Section 2:**
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|-------------------|--|
| <b>R10</b>        | Flammable  |
| <b>R20/21 /22</b> | Harmful by inhalation, in contact with skin and if swallowed |
| <b>R36/37/38</b>  | Irritating to the eyes, respiratory system and skin          |



**16.2 Full Text of S-Phrases Contained in Section 2:**

- S1/2** Keep locked up and out of the reach of children  
**S23** Do not breathe gas/fumes/vapour/spray  
**S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
**S37/39** Wear suitable gloves and eye/face protection

**16.3** The information contained in this Data Sheet relates only to the specific material identified. Equus Industries Ltd believes the information to be accurate and reliable as at the date of this Data Sheet. No Warranty, Guarantee or representation is expressed or implied by the Company as to the absolute correctness or completeness of any representation contained in this Data and assumes no legal responsibility in connection therewith. It can not be assumed that all acceptable safety measures are contained in this Data Sheet, or that additional measures may not be required under particular or exceptional circumstances or conditions.