

# SAFETY DATA SHEETS

**This SDS packet was issued with item:**

075533500

N/A



# Safety Data Sheet

Issue Date: 23-Apr-2013

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Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** 4-Meta Universal Catalyst-V

### Other means of identification

**SDS #** S371

### Recommended use of the chemical and restrictions on use

**Recommended Use** Dental Adhesive System.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Parkell, Inc.  
300 Executive Drive  
Edgewood, NY 11717

### Emergency Telephone Number

**Company Phone Number** (631) 249-1134  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Colorless, transparent liquid

**Physical State** Liquid

**Odor** Like n-butanol

### Classification

|   |                           |
|---|---------------------------|
| Acute toxicity - Oral   | Category 4                |
| Acute toxicity - Dermal   | Category 4                |
| Skin corrosion/irritation   | Category 1 Sub-category B |
| Serious eye damage/eye irritation   | Category 1                |
| Pyrophoric Liquids  | Category 1                |
| Substances or mixtures which, in contact with water, emit flammable gases | Category 2                |

### Signal Word

**Danger**

### Hazard Statements

Harmful if swallowed  
Harmful in contact with skin  
Causes severe skin burns and eye damage  
Catches fire spontaneously if exposed to air  
In contact with water releases flammable gases



**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Do not allow contact with air  
 Do not allow contact with water  
 Handle under inert gas

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a poison center or doctor/physician  
 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages  
 Wash contaminated clothing before reuse  
 If irritation develops or persists seek medical attention  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a poison center or doctor/physician  
 IF SWALLOWED: Call a poison center or doctor/physician  
 Rinse mouth  
 Do not induce vomiting  
 IN CASE OF FIRE: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store locked up  
 Store in a dry place. Store in a closed container  
 Store contents under inert gas

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name           | CAS No   | Weight-%    |
|-------------------------|----------|-------------|
| tri-n-butylborane (TBB) | 122-56-5 | Proprietary |
| Tributyl Borate         | 688-74-4 | Proprietary |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

**First Aid Measures**

|                     |   |
|---------------------|---|
| <b>Eye Contact</b>  | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.  |
| <b>Skin Contact</b> | Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Wash contaminated clothing before reuse. Get medical attention if irritation develops or persists.   |
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediately call a poison center or doctor/physician. |
| <b>Ingestion</b>    | Rinse mouth. Do not induce vomiting. Promptly drink several glasses of water or milk to dilute. Get medical attention.  |

**Most important symptoms and effects**

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | Causes severe skin burns and eye damage. May be irritating to the mouth, throat and stomach. Can cause respiratory tract irritation; may cause dizziness, dullness, headache. Higher concentrations can produce central nervous system depression and narcosis. |
|-----------------|---|

**Indication of any immediate medical attention and special treatment needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Dry sand. Water spray (fog).

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Highly flammable liquid, reactive with water and air to generate heat and flammable gases.

**Hazardous Combustion Products** Flammable gas and toxic gas may be released by reaction with water or air.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

|                                  |  |
|----------------------------------|--|
| <b>Personal Precautions</b>      | Use personal protection recommended in Section 8.  |
| <b>For Emergency Responders</b>  | Remove all sources of ignition. Ventilate the area.  |
| <b>Environmental Precautions</b> | Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS. |

**Methods and material for containment and cleaning up**

|  |   |
|--|---|
| <b>Methods for Containment</b>         | Prevent further leakage or spillage if safe to do so.   |
| <b>Methods for Clean-Up</b>            | Contain and collect with an inert absorbent and place into an appropriate container for disposal. |
| <b>Prevention of Secondary Hazards</b> | Contents may develop pressure by decomposition.   |

**7. HANDLING AND STORAGE****Precautions for safe handling**

|                                |   |
|--------------------------------|---|
| <b>Advice on Safe Handling</b> | Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not allow contact with water or air. Handle under inert gas. Protect from moisture. Protect container from physical damage. |
|--------------------------------|---|

**Conditions for safe storage, including any incompatibilities**

|                               |  |
|-------------------------------|--|
| <b>Storage Conditions</b>     | Store in a tightly closed container in a dry, dark, and well-ventilated area at a cool (5-30° C/41-86°F) and stable temperature. Store away from ignition sources and flammable solids with large surface areas such as guaze and cotton. Store locked up. |
| <b>Incompatible Materials</b> | Strong oxidizers. Halogenated hydrocarbons. Flammable solids with large surface areas such as gauze or cotton.   |

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

No exposure limits noted for ingredient(s). The following information is given as general guidance.

**Appropriate engineering controls**

|                             |   |
|-----------------------------|---|
| <b>Engineering Controls</b> | Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers. |
|-----------------------------|---|

**Individual protection measures, such as personal protective equipment**

|                                 |  |
|---------------------------------|--|
| <b>Eye/Face Protection</b>      | Use safety glasses or chemical splash goggles.   |
| <b>Skin and Body Protection</b> | Use impervious protective gloves to prevent skin contact.  |
| <b>Respiratory Protection</b>   | No protection is ordinarily required under normal conditions of use and with adequate ventilation. |

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|                       |                               |                       |                |
|-----------------------|-------------------------------|-----------------------|----------------|
| <b>Physical State</b> | Liquid                        | <b>Odor</b>           | Like n-butanol |
| <b>Appearance</b>     | Colorless, transparent liquid | <b>Odor Threshold</b> | Not determined |
| <b>Color</b>          | Colorless, transparent        |                       |                |

| <u>Property</u>                     | <u>Values</u>              | <u>Remarks • Method</u> |
|-------------------------------------|----------------------------|-------------------------|
| <b>pH</b>                           | Not determined             |                         |
| <b>Melting Point/Freezing Point</b> | Not determined             |                         |
| <b>Boiling Point/Boiling Range</b>  | 56 °C / 133 °F             | (acetone)               |
| <b>Flash Point</b>                  | Unknown                    |                         |
| <b>Evaporation Rate</b>             | Not determined             |                         |
| <b>Flammability (Solid, Gas)</b>    | Liquid-not applicable      |                         |
| <b>Upper Flammability Limits</b>    | 13% (acetone)              |                         |
| <b>Lower Flammability Limit</b>     | 2% (acetone)               |                         |
| <b>Vapor Pressure</b>               | Not known                  |                         |
| <b>Vapor Density</b>                | Not known                  |                         |
| <b>Specific Gravity</b>             | approx. 0.8                | (Water = 1)             |
| <b>Water Solubility</b>             | Decomposes, partly soluble |                         |
| <b>Solubility in other solvents</b> | Not determined             |                         |
| <b>Partition Coefficient</b>        | Not determined             |                         |
| <b>Auto-ignition Temperature</b>    | Not determined             |                         |
| <b>Decomposition Temperature</b>    | Not determined             |                         |
| <b>Kinematic Viscosity</b>          | Not determined             |                         |
| <b>Dynamic Viscosity</b>            | Not determined             |                         |
| <b>Explosive Properties</b>         | Not determined             |                         |
| <b>Oxidizing Properties</b>         | Not determined             |                         |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Reacts with water or air.

### Possibility of Hazardous Reactions

None under normal processing.

**Hazardous Polymerization**      Hazardous polymerization does not occur.

### Conditions to Avoid

Keep separated from incompatible substances. Avoid temperatures beyond 30°C (86°F), refrigeration, fluctuating temperature, direct sunlight, and ignition sources. Keep out of reach of children.

### Incompatible Materials

Strong oxidizers. Halogenated hydrocarbons. Flammable solids with large surface areas such as gauze or cotton.

### Hazardous Decomposition Products

Carbon monoxide, butanol, boron oxide, and borane.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Eye Contact**                      Causes severe eye damage.

**Skin Contact**                      Causes severe skin burns. Harmful in contact with skin.

**Inhalation**                          Avoid breathing vapors or mists.

**Ingestion**                          Harmful if swallowed.

### Component Information

| Chemical Name                       | Oral LD50            | Dermal LD50 | Inhalation LC50 |
|-------------------------------------|----------------------|-------------|-----------------|
| tri-n-butylborane (TBB)<br>122-56-5 | = 1125 mg/kg ( Rat ) | -           | -               |

### Information on physical, chemical and toxicological effects

**Symptoms**                          Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity**                      Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

### Numerical measures of toxicity

Not determined

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Component Information

Not available

### Persistence/Degradability

Not determined.

### Bioaccumulation

Not determined.

### Mobility

Not determined

### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

#### **Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

### Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

### DOT

Please contact manufacturer for most current information

### IATA

Please contact manufacturer for most current information

### IMDG

Please contact manufacturer for most current information

## 15. REGULATORY INFORMATION

### International Inventories

| Chemical Name           | TSCA    | DSL | NDSL | EINECS  | ELINCS | ENCS    | IECSC | KECL | PICCS | AICS |
|-------------------------|---------|-----|------|---------|--------|---------|-------|------|-------|------|
| tri-n-butylborane (TBB) | Present |     | X    | Present |        |         | X     |      |       |      |
| Tributyl Borate         | Present |     | X    | Present |        | Present | X     |      |       | X    |

#### **Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

**US Federal Regulations****CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical Name               | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------|------------|---------------|--------------|
| Tributyl Borate<br>688-74-4 |            | X             | X            |

**16. OTHER INFORMATION****NFPA****Health Hazards**

Not determined

**Flammability**

Not determined

**Instability**

Not determined

**Special Hazards**

Not determined

**HMIS****Health Hazards**

Not determined

**Flammability**

Not determined

**Physical Hazards**

Not determined

**Personal Protection**

Not determined

**Issue Date:** 23-Apr-2013  
**Revision Date:** 13-Jan-2015  
**Revision Note:** New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**