

# Forza™ B3000 XP

## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Forza™ B3000 XP
<b>Other Means of Identification</b>	EXP2016-2033 Experimental Polyester
<b>Recommended Use</b>	Adhesive/Bonding Compound.
<b>Restrictions on Use</b>	For Research and Development Use Only per 40 CFR 720.36. Not for commercial sale.
<b>Manufacturer / Supplier</b>	Sirrus, Inc., 422 Wards Corner Road, Suite B, Loveland, OH, 45140, 513-453-0308, www.sirruschemistry.com
<b>Emergency Phone No.</b>	3E Company, Global Response Access Code: 333992, Contract #13640, Americas, 1-866-519-4752 (US, Canada, Mexico), 1-760-476-3962, 24 hours
<b>SDS No.</b>	0203
<b>Date of Preparation</b>	June 22, 2018

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification:

Acute toxicity (Oral) - Category 4; Skin corrosion/irritation - Category 2; Eye damage/eye irritation - Category 1; Skin sensitization - Category 1

### GHS Label Elements:



### Note:

Experimental sample. Not all hazards have been evaluated.

### Signal Word:

Danger

### Hazard Statement(s):

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.

### Precautionary Statement(s):

#### Prevention:

P261	Avoid breathing dusts/mist.
P264	Wash hands and skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing must not be allowed out of the workplace.  
P363 Wash contaminated clothing before reuse.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P330 Rinse mouth.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTRE/doctor.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

**Disposal**

: P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

**Other Hazards**

Hazard Not Otherwise Classified (HNOC): None.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Notes**

This materials is a polyester of 2-methylenemalonate. The specific chemical identity and/or exact percentage of composition (concentration) has been withheld as a trade secret. Contains 2,6-Di-tert-butyl-4-methylphenol (CAS#: 128-37-0) as a stabilizer at concentration of <0.3%

### SECTION 4. FIRST-AID MEASURES

**First-aid Measures**

**Inhalation**

Remove source of exposure or move to fresh air. Get medical advice/attention if you feel unwell or are concerned.

**Skin Contact**

Avoid direct contact. Wear chemical protective clothing if necessary. Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. If skin irritation occurs get medical advice/attention.

**Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.

**Ingestion**

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Get medical advice/attention if you feel unwell or are concerned.

**Most Important Symptoms and Effects, Acute and Delayed**

See Sections 2 and 11 for information on symptoms of over exposure. If exposed or concerned: Get medical advice Immediate Medical Attention and Special Treatment

**Target Organs**

Eyes, skin. Immediately flush affected areas with water per First-aid Measures.

**Special Instructions**

Not applicable.

## Medical Conditions Aggravated by Exposure

None known.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

#### Unsuitable Extinguishing Media

None known.

### Specific Hazards Arising from the Chemical

Forms carbon monoxide and carbon dioxide upon burning.

In a fire, the following hazardous materials may be generated: toxic, corrosive chemicals.

### Special Protective Equipment and Precautions for Fire-fighters

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours.

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

### Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Only use where there is adequate ventilation. Do not get in eyes, on skin or on clothing. Do not handle until all safety precautions have been read and understood. Do not breathe dust or mists. Do not aerosolize this product.

### Conditions for Safe Storage

Store in an area that is: cool, well-ventilated.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Not available.

### Appropriate Engineering Controls

Use a local exhaust ventilation and enclosure, if necessary, to control amount in the air.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

#### Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge at all times when handling this material.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Product Identifier: Forza™ B3000 XP

SDS No.: 0203

Date of Preparation: June 22, 2018

<b>Appearance</b>	Clear slight yellow liquid. Particle Size: Not applicable
<b>Odour</b>	Sweet
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not applicable
<b>Melting Point/Freezing Point</b>	Not available (melting); Not available (freezing) Not available
<b>Initial Boiling Point/Range</b>	Not available
<b>Flash Point</b>	101 °C (214 °F) (closed cup)
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit</b>	Not available (upper); Not available (lower)
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	Not available
<b>Solubility</b>	Insoluble in water; Moderately soluble in common organic solvents.
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic); 20 - 200 centipoises at 25 °C (77 °F) (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid
<b>Molecular Formula</b>	Not applicable
<b>Molecular Weight</b>	Not applicable
<b>Bulk Density</b>	Not available
<b>Surface Tension</b>	Not available
<b>Critical Temperature</b>	Not available
<b>Electrical Conductivity</b>	Not available
<b>Vapour Pressure at 50 deg C</b>	Not available
<b>Saturated Vapour Concentration</b>	Not available

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Polymerization will occur in the presence of alkaline materials. Excessive heat may be released upon polymerization. Gradual degradation may occur with water or moisture.

### Chemical Stability

Stable if inhibited.

### Possibility of Hazardous Reactions

Polymerizes in the presence of alkaline conditions (high pH) . Releases a large amount of heat.

### Conditions to Avoid

Prolonged exposure to high temperatures. Water, moisture or humidity. Alkaline conditions (high pH).

### Incompatible Materials

Polymerizes on contact with: strong bases (e.g. sodium hydroxide).

### Hazardous Decomposition Products

Oxides of carbon.

## SECTION 11. TOXICOLOGICAL INFORMATION

Experimental Sample. The toxicological properties of this material have not been fully determined. The following data are mostly based on a related compound (diethyl 2-methylenemalonate: CAS 3377-20-6), not actual data for this material unless otherwise noted. GHS categories are also based on data for diethyl 2-methylenemalonate.

### Likely Routes of Exposure

Skin contact.

### Acute Toxicity

LC50: No information was located.

Acute Oral Toxicity: LD50 = 550 mg/kg (diethyl 2-methylenemalonate )

Acute Dermal Toxicity: LD50 >5000 mg/kg (diethyl 2-methylenemalonate )

### Skin Corrosion/Irritation

Can cause skin irritation based on animal tests for closely a related material.

### Serious Eye Damage/Irritation

Causes serious eye damage based on skin irritation information for a related material.

### STOT (Specific Target Organ Toxicity) - Single Exposure

No information was located.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

### Respiratory and/or Skin Sensitization

Can cause an allergic reaction (skin sensitization) based on animal tests for a related material.

### Carcinogenicity

This product is not listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) and has not been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.

### Reproductive Toxicity

#### Development of Offspring

No information was located.

#### Sexual Function and Fertility

No information was located.

### Germ Cell Mutagenicity

No information was located.

### Interactive Effects

No information was located.

No information was located for: Aspiration Hazard, Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

## SECTION 12. ECOLOGICAL INFORMATION

### Persistence and Degradability

No information was located.

### Bioaccumulative Potential

No information was located.

### Mobility in Soil

No information was located.

### Other Adverse Effects

---

Product Identifier: Forza™ B3000 XP  
SDS No.: 0203  
Date of Preparation: June 22, 2018

There is no information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Bury in a licensed landfill or burn in an approved incinerator according to federal, provincial/state, and local regulations.

## SECTION 14. TRANSPORT INFORMATION

Not regulated for transport

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

None known.

#### USA

##### Toxic Substances Control Act (TSCA) Section 8(b)

Material is provided for Research and Development Purposes only per 40 CFR 720.36.

## SECTION 16. OTHER INFORMATION

**SDS Prepared By** Alexander R. Holzer  
**Phone No.** 513-453-0107  
**Date of Preparation** August 23, 2017  
**Revision Indicators** Revised 6/22/18  
**Key to Abbreviations** ACGIH® = American Conference of Governmental Industrial Hygienists  
AIHA = American Industrial Hygiene Association  
HSDB® = Hazardous Substances Data Bank  
IARC = International Agency for Research on Cancer  
NFPA = National Fire Prevention Association  
NIOSH = National Institute for Occupational Safety and Health  
NTP = National Toxicology Program  
OSHA = US Occupational Safety and Health Administration  
RTECS® = Registry of Toxic Effects of Chemical Substances

**Disclaimer** This information is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of the Supplier's knowledge, or is obtained from sources believed by the Supplier to be accurate. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. The Supplier assumes no responsibility for injuries proximately caused by the use of the Material if reasonable safety procedures are not followed as stipulated in this Safety Data Sheet. Additionally, the Supplier assumes no responsibility for injuries proximately caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.