

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: TRUE FINISH 2K URETHANE ACTIVATOR

Product Code(s): 5911-04

Manufacturer/Supplier: TRANSTAR AUTOBODY TECHNOLOGIES  
2040 Heiserman Dr.  
Brighton, MI, 48114, USA

24 Hour Emergency Phone(s): 800-424-9300 (CHEMTREC), 613-996-6666 (CANUTEC)

Business Phone: 810-220-3000

Product Use: Hardener/Activator

MSDS Prepared By: J Papson

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% by Weight
* Methyl Ethyl Ketone (MEK)	78-93-3	25- 40%
Homopolymer of HDI	28182-81-2	25- 40%
n-Butyl Acetate	123-86-4	25- 40%
* Dimethylbenzene, Xylene (Mixed Isomers)	1330-20-7	0 - 5%
Ethyl Benzene	100-41-4	0 - 5%

See Section 15. Regulatory Information for code descriptions  
Weight percent (%) of 0.0 means chemical is in trace amounts.

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3. HAZARDS IDENTIFICATION

WARNING! FLAMMABLE. TOXIC.

HMIS Hazard Ratings: Health =3\*, Flammability =3, Chemical Reactivity =1

Note: HMIS ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered. Previous overexposure or sensitization to isocyanates can be intensified through skin contact or inhalation. Asthma and other respiratory disorders (bronchitis, emphysema, hyperactivity), skin allergies, eczema, can be triggered through isocyanate exposure.

Potential Health Effects

Eyes: Moderate irritation to the eyes. Exposure can cause redness and itching.

Skin: Serious irritation to the skin. Sensitizer, can cause allergic reaction. May be absorbed through the skin causing liver, kidney, central

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nervous system damage. Prolonged contact with this product can cause reddening, swelling, rash scalling or blistering. In those who have developed skin sensitization, these symptoms can develop as a result of contact with very small amount of the material.

Inhalation: Serious irritation to the respiratory system, including nasal passages, lung lining and mucous membranes. Sensitizer, can cause allergic reaction. May be harmful if inhaled. High concentrations may be fatal.

Ingestion: Moderate irritation to the digestive tract.

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#### 4. FIRST AID MEASURES

Seek professional medical attention for all over-exposures and/or persistent problems.

Eyes Contact: Flush eyes with clean water for a minimum of 15 minutes. Seek medical attention.

Skin Contact: Wash exposed area thoroughly with soap and water.

Inhalation: Remove person from area to fresh air. If breathing difficulty persists, seek medical attention.

Ingestion: DO NOT INDUCE VOMITTING. Seek immediate medical attention.

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#### 5. FIRE FIGHTING MEASURES

##### Flammable Properties

Flash Point: 23 Deg F, -5 Deg C Method: TCC  
Upper Explosive Limit (UEL): 10.6  
Lower Explosive Limit (LEL): 0.8  
Autoignition Temperature: No data

Extinguishing Media: Alcohol Foam, CO<sub>2</sub>, Dry Chemical, --DO NOT USE WATER--

Special Firefighting Procedures: Full fire fighter equipment including SCBA should be worn to avoid skin contact and inhalation of concentrated vapors. Minimize skin exposure. Highly toxic fumes may be generated by thermal decomposition.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, oxides of nitrogen, and cyanide.

Unusual Fire and Explosion Hazards: Vapors can travel to a source of ignition and flash back. Closed containers may explode when exposed to extreme heat or burst when contaminated with water (CO<sub>2</sub> gas evolved). Hazards apply to empty containers. Combustion generates toxic fumes of amines and cyanides. Reacts with water to give off heat.

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#### 6. ACCIDENTAL RELEASE MEASURES

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For large spills or transportation accidents involving release of this product, contact the Emergency Response Center: 800-424-9300.

Eliminate all sources of ignition, provide adequate ventilation, dike spill area and add absorbent earth or sawdust to spilled liquid. Sweep up and dispose of in appropriate containers in accordance with Federal, State and/or Local regulations.

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## 7. HANDLING AND STORAGE

Water sensitive material. Will react with water emitting heat and slowly solidifying. Use non-sparking tools and explosion proof equipment when handling this material. Avoid hot surfaces. Use in cool, well-ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Store in a cool area away from heat and flames. Do not reuse container when empty.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name/Exposure Limits	CAS Number
* Methyl Ethyl Ketone (MEK)	78-93-3
OSHA PEL: 200 ppm, ACGIH TLV: 200 ppm, OTHER: STEL 300 ppm	
Homopolymer of HDI	28182-81-2
OSHA PEL: NOT EST., ACGIH TLV: NOT EST., OTHER: 1mg/m <sup>3</sup>	
n-Butyl Acetate	123-86-4
OSHA PEL: 150, ACGIH TLV: 150, OTHER: STEL200ppm	
* Dimethylbenzene, Xylene (Mixed Isomers)	1330-20-7
OSHA PEL: 100 ppm, ACGIH TLV: 100 ppm, NIOSH: 100 ppm STEL150ppm	
IDLH: 900 ppm	
Ethyl Benzene	100-41-4
OSHA PEL: 100 ppm, ACGIH TLV: 100 ppm, STEL 125ppm	
NIOSH: 100ppm STEL 125ppm, IDLH: 800 ppm	

Engineering Controls: Engineering controls should be utilized to control airborne contaminants below exposure limits (PEL & TLV). Ventilation equipment must be explosion proof. Use exhaust if general ventilation is not sufficient to keep the airborne contaminant levels low.

Respiratory Protection: When spraying this material utilize engineering controls such as vents and fans, to reduce emission levels below the time weighted exposure limits (ACGIH TLV & OSHA PEL) or use a fresh-air supplying respirator or a self-contained breathing apparatus (SCBA). When working with this material use a MSHA/NIOSH approved cartridge respirator or suitable respiratory protection to keep airborne mists and vapor concentrations below the PEL & TLV limits. When using in poorly ventilated and confined spaces, use a fresh-air supplying respirator or a self-contained breathing apparatus.

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Eye Protection: Use safety glasses with chemical splash goggles or faceshield. Use sealed face protection, i.e., a full face respirator when spraying.

Skin Protection: Use chemical resistant gloves. When spraying use supplied air and a full body chemical protective suit with gloves to minimize skin contact.

Safe Work Practices: Eye washes and safety showers in the workplace are recommended. Avoid contact with skin and eyes. Avoid breathing vapors. Wash hands thoroughly after using and before eating, drinking or smoking. Employee education and training in the safe use and handling of this product is required under the OSHA Hazard Communication Standard 29CFR1200. Smoking in area where this material is used should be strictly prohibited. Always use protective clothing and equipment. Remove all contaminated clothing and wash thoroughly when finished working. Keep food and drink away from material and from area where material is being used.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Homogeneous mixture  
Physical State: Liquid  
Color: Clear, colorless to slight yellow.  
Odor: Organic solvent  
Odor Threshold: No Data  
Specific Gravity (water=1) 0.91  
Vapor Pressure: No data  
Vapor Density: Heavier than air  
Material VOC: 5.24 lb/gl 627 g/l  
Coating VOC: 5.24 lb/gl 628 g/l  
Evaporation Rate: Faster than Butyl Acetate  
Boiling Point: 175 deg F  
Melting Point: No data  
Freezing Point: No data  
Viscosity at Ambient Temperature: No data  
Solubility in Water: Insoluble  
Octanol/Water Partition Coefficient: No data  
pH: No data

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## 10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: Strong acids, strong bases, strong oxidizing agents, and amines.

Hazardous Polymerization: In large quantities, hazardous polymerization can lead to uncontrollable rise in temperature.

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## 11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

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CONTAINS ISOCYANATES WHICH CAN CAUSE SKIN AND RESPIRATORY SENSITIZATION.

**ACUTE:**

INHALATION - Dizziness, breathing difficulty, headaches, & loss of coordination. Over-exposure can result in lung damage and respiratory sensitization.

EYE CONTACT - Irritation, tearing, redness, and blurred vision.

SKIN CONTACT - Can dry and defat skin causing cracks, irritation, and dermatitis. Isocyanates can cause skin sensitization from contact

INGESTION - Can cause gastrointestinal irritation, vomiting, nausea, & diarrhea.

**CHRONIC:**

May affect liver, kidney and central nervous system with repeated exposure. Sensitization to isocyanates can reoccur with future exposures.

Spraying of material can cause an oxygen deficient environment. Use proper ventilation to remove vapors, mists and fumes or use proper respiratory protection as SCBA or supplied air.

Acute Toxicity Data: No data.

Carcinogenicity: NTP -No, IARC -Yes, OSHA -No

This product has not been tested for carcinogenic effects. Some chemicals in this product may be identified by NTP, IARC and/or OSHA as carcinogenic, indicated above as "Yes". No further information available.

Teratology: No data.

Reproduction: No data.

Mutagenicity: No data.

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**12. ECOLOGICAL INFORMATION**

No data.

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**13. DISPOSAL CONSIDERATIONS**

Subject to hazardous waste generation, treatment, storage and disposal. Product should be disposed of in accordance with all governmental regulations. Subject to hazardous waste generation, treatment, storage and disposal under RCRA, 40CFR261. Product should be disposed of in accordance with all Federal, State and local regulations.

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**14. TRANSPORT INFORMATION**

The following transportation information is provided based on Transtar Autobody Technologies interpretation of shipping regulations. Each shipper is responsible for identifying, naming, marking and labeling

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prior to offering for transport.

USA (DOT) Status: For inner packagings not exceeding 5 L each packaged in a strong outer box: CONSUMER COMMODITY ORM-D  
Paint Related Material, 3, UN1263, PG II.

Water (IMDG) Status: Paint related material, 3, UN1263, PG II

Air (ICAO, IATA) Status: Paint related material, 3, UN1263, PG II

Canada (TDG) Status: For inner packagings not exceeding 5 L each packaged in a strong outer box: CONSUMER COMMODITY ORM-D  
Paint Related Material, 3, UN1263, PG II

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15. REGULATORY INFORMATION

The information listed in this section is not all inclusive of all regulations for this product or the chemical components of this product.

US Federal Regulations

TSCA Status: All known major components of this product are listed on the TSCA Inventory and/or are otherwise in compliance with TSCA.

SARA 302 (EHS) Status: No EHS chemicals present.

SARA 311/312 Status: Immediate Health Hazard, Delayed Health Hazards, Fire Hazard, Reactivity Hazard

SARA 313 Status: \* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

OSHA Status: This material meets the requirement of hazardous material and is subject to 29CFR1910.1200.

USA State Information

California Proposition 65: WARNING: This product contains chemical(s) known to the State of California to cause cancer.

Pennsylvania RtK Status: This material contains chemical(s) subject to notification under Pennsylvania Right to Know.

New Jersey RtK Status: This material contains chemical(s) subject to notification under New Jersey Right to Know.

Massachusetts RtK Status: This material contains chemical(s) subject to notification under Massachusetts Right to Know.

Rhode Island RtK Status: This material contains chemical(s) subject to notification under Rhode Island Right to Know.

International Regulations

Canada

DSL Status: All known major components of this product are listed on the DSL Inventory and/or are otherwise in compliance with the DSL

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NDSL Status: Contains no chemicals on the NDSL  
WHMIS: B2D2AD2B

EINECS Status: All components of this material are listed on the  
EINECS Inventory.

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16. OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Transtar Autobody Technologies to be accurate. As with all chemicals, KEEP AWAY FROM CHILDREN AND ANIMALS. FOR PROFESSIONAL USE ONLY. The hazard information contained herein is offered solely for the consideration of the user, subject to his own investigation and verification of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

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