



**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: JS 356PAVOC Aliphatic Urethane  
 PRODUCT CODES: 356PAVOC

MANUFACTURER: Jobsite Supply  
 STREET ADDRESS: 624 South Missouri Street  
 CITY, STATE, ZIP: Indianapolis, IN 46225

INFORMATION PHONE: 317-684-7474

DATE REVISED: 3/20/12

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT %
HOMOPOLYMER OF HDI	28182-81-2	1MG/M3	NONE	NONE	
*XYLENE	1330-20-7	100PPM	100PPM	150PPM	<11
N-BUYYL ACETATE	123-86-4	150PPM	150PPM	200PPM	
HEXAMETHYLENE DIISOCYANATE (HDI)	822-06-0	NONE	.005PPM	NONE	
DIBUTYLIN DILUARATE	77-58-7	.1MG/M3	.1MG/M3	.1MG/M3	
METHYL N AMYL KETONE	110-43-0	100PPM	50PPM	NONE	
*ETHYL BENZENE	100-41-4	100ppm	100ppm	125ppm	<2.0

**SECTION 2 NOTES:**

\*\*\* Indicates toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372.  
 XYLENE ACGIH STEL=150PPM. FOR HDI: ORAL LD50> 10,000 mg/kg (RATS), INHALATION LC50 RANGES FROM 137 TO 1150 mg/m3, EYE IRRITATION SCORE 54.6/110 FOR A 24HR EXPOSURE, SKIN RESPONSE - MODERATE IRRITANT IRRITATION SCORE 3.4/8 (RABBIT)

**SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR: PALE YELLOW LIQUID WITH SOLVENT ODOR  
 BOILING POINT OR RANGE: 279 TO 300F  
 VAPOR DENSITY (AIR = 1): Not available  
 SPECIFIC GRAVITY (H2O = 1): 1.0  
 EVAPORATION RATE: not available  
 SOLUBILITY IN WATER: NEGLIGIBLE

**SECTION 3 NOTES:**

**SECTION 4: FIRE-FIGHTING MEASURES**

FLAMMABLE LIMITS IN AIR, (% by volume) UPPER: not available  
 LOWER: not available

FLASH POINT: 77F  
 METHOD USED: SETA FLASH  
 EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL  
 SPECIAL FIRE FIGHTING PROCEDURES:

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DO NOT ENTER CONFINED FIRE AREA WITHOUT FULL BUNKER GEAR INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. PRESENCE OF SOLVENTS IN PRODUCTS MAY REQUIRE GROUNDING. REMOVE ALL SOURCES OF IGNITION.

## UNUSUAL FIRE AND EXPLOSION HAZARDS:

IF FIRE OCCURS, SOLVENTS MAY PRODUCE EXCESSIVE PRESSURE. SEALED DRUMS MAY RUPTURE AND IGNITE. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND AND IGNITE BY ANY SOURCE OF IGNITION. DURING A FIRE, HDI VAPORS AND OTHER TOXIC GASSES MAY BE EVOLVED. CONTAINERS MAY BURST IF CONTAMINATED WITH WATER. VAPOR FLASHBACK TO SOURCE IS POSSIBLE.

## SECTION 4 NOTES:

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### SECTION 5: STABILITY AND REACTIVITY

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#### STABILITY:

STABLE

#### CONDITIONS TO AVOID (STABILITY):

AVOID EXCESSIVE HEAT OR OPEN FLAMES AS WELL AS ALL SOURCES OF IGNITION SUCH AS SPARKS, HEATERS, AND STATIC DISCHARGES ETC.

#### INCOMPATIBILITY (MATERIAL TO AVOID):

AVOID WATER, AMINES, STRONG BASES, ALCOHOLS, METAL COMPOUNDS, AND SURFACE ACTIVE COMPOUNDS.

#### HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

MAY FORM TOXIC CHEMICALS, CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, HCN AND HDI

#### HAZARDOUS POLYMERIZATION:

MOISTURE OF MATERIALS THAT REACT WITH ISOCYANATES AND TEMPERATURES ABOVE 400 DEGREES F MAY CAUSE POLYMERIZATION.

## SECTION 5 NOTES:

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### SECTION 6: HAZARDS IDENTIFICATION

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#### HMIS HAZARD CLASSIFICATION

HEALTH: 3      FLAMMIBILITY: 3      REACTIVITY: 1      PERSONAL PROTECTIVE EQUIPMENT: G

#### POTENTIAL HEALTH EFFECTS

##### EYES:

CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, OR BLURRED VISION AS WELL AS CORNEAL OPACITY AND CONJUNCTIVITIS

##### SKIN:

MAY CAUSE IRRITATION, DEFATTING AND DERMATITIS.

##### INGESTION:

CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITTING, DIARRHEA AND ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. CAN CAUSE CORROSIVE ACTION TO MUCOUS MEMBRANES AND DIGESTIVE TRACT.

##### INHALATION:

CAN CAUSE NAUSEA AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, HEADACHE AND POSSIBLE UNCONSCIOUSNESS. BURNING SENSATION TO MUCOUS MEMBRANES, SHORTNESS OF BREATH AND FLU LIKE SYMPTOMS MAY OCCUR.

#### HEALTH HAZARDS (ACUTE AND CHRONIC):

CAN CAUSE SENSITIZATION BY EXPOSURE THROUGH CONTACT OR HIGH CONCENTRATION OF VAPOR. OVER EXPOSURE TO THIS MATERIAL CAN CAUSE CARDIAC ABNORMALITIES, ANEMIA, LIVER ABNORMALITIES, KIDNEY DAMAGE OR EVEN EYE DAMAGE. CAN CAUSE ASTHMA OR OTHER RESPIRATORY DISORDERS, BRONCHITIS, EMPHYSEMA, HYPERACTIVITY, AND EXCEMA.

#### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC RESPONSE.

#### CARCINOGENICITY

OSHA: NO      NTP: NO      IARC: NO

#### ADDITIONAL CARCINOGENICITY INFORMATION:

TDI HAD BEEN DESIGNATED A POTENTIAL CARCINOGEN BY NTP AND IARC. THIS IS BASED ON STUDIES DIRECTLY GIVING TDI THROUGH A TUBE INTO THE STOMACH OF LAB ANIMALS WHICH INCREASED TUMORS. ETHYL BENZENE WAS FOUND TOXIC TO FETUS'S AT LETHAL DOSES.

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### SECTION 7: FIRST AID MEASURES

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#### EYES:

FLUSH EYES WITH WATER FOR AT LEAST FIFTEEN MINUTES AND CONSULT A PHYSICIAN.

#### SKIN:

FOR EXTREME EXPOSURE USE A SAFETY SHOWER IMMEDIATELY. WASH AFFECTED AREA WITH SOAP AND WATER AND REMOVE ALL CONTAMINATED CLOTHING PROMPTLY.

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## INGESTION:

DO NOT INDUCE VOMITING, KEEP PERSON WARM AND CONSULT A PHYSICIAN IMMEDIATELY. GIVE 1-2 CUPS OF MILK OR WATER TO DRINK.

## INHALATION:

REMOVE VICTIM TO FRESH AIR AND ADMINISTER OXYGEN IF NECESSARY. OBTAIN MEDICAL ASSISTANCE. ASTHMATIC TYPE SYMPTOMS MAY OCCUR IMMEDIATELY OR BE DELAYED FOR SEVERAL HOURS. TREATMENT IS SYMPTOMATIC.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

## SECTION 7 NOTES:

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## SECTION 8: RELEASE MEASURES

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### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

WEAR RESPIRATOR AND PROTECTIVE CLOTHING. REMOVE ALL SOURCES OF IGNITIONS. REMOVE EXCESS WITH SPARK PROOF EQUIPMENT AND TAKE UP THE REMAINDER WITH AN ABSORBENT MATERIAL SUCH AS CLAY AND PLACE IN DISPOSAL CONTAINERS. CONTAINED AIR RESPIRATOR MAY BE NECESSARY.

## SECTION 8 NOTES:

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## SECTION 9: WASTE DISPOSAL

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### WASTE DISPOSAL METHOD:

DISPOSE OF THE MATERIAL IN A WASTE DISPOSAL SITE IN ACORDANCE WITH LOCAL, STATE, AND FEDERAL LAW.

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## SECTION 10: HANDLING AND STORAGE

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### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN A COOL DRY PLACE. SEAL ALL PARTIALLY USED CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. MIXED MATERIALS CONTAIN THE HAZARDS OF ALL THE COMPONENTS, THEREFORE, READ THE MSDS'S OF ALL THE COMPONENTS PRIOR TO USING MATERIAL. PROPERLY LABEL ALL CONTAINERS. KEEP MATERIAL AWAY FROM ALL SOURCES OF IGNITION.

### OTHER PRECAUTIONS:

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS GENERATED FROM THE MATERIAL. OBSERVE CONDITIONS OF GOOD GENERAL HYGIENE AND SAFE WORKING PRACTICES. CONTAMINATED LEATHER ARTICLES CAN NOT BE CLEANED AND MUST BE DISCARDED IF CONTAMINATED WITH THIS PRODUCT. WASH ALL CONTAMINATED CLOTHING PRIOR TO THE REUSE THEREOF. WEAR APPROPRIATE SAFETY EQUIPMENT AND RESPIRATOR AT ALL TIMES WHEN VENTILLATION IS NOT SUFFICIENT TO CONTROL VAPORS. OBSERVE OSHA REGULATIONS FOR RESPIRATOR USE (29 CFR 1910.134). WHEN SPRAYING MATERIAL AVOID EXPOSURE TO ALL MISTS GENERATED BY USING AIR SUPPLIED RESPIRATOR.

## SECTION 10 NOTES:

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## SECTION 11: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### RESPIRATORY PROTECTION:

USE A NIOSH APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVER EXPOSURE TO VAPOR IN ACCORDANCE WITH 29 CFR 1910.134. ENGINEERING OR ADMINISTRATIVE MEASURES SHOULD BE TAKEN TO REDUCE THE RISK AND EXPOSURE. USE A POSITIVE PRESSURE SUPPLIED AIR RESPIRATOR WHEN EXCEDING TLV'S OR IF TDI MONOMER CONCENTRATIONS EXCEED ACCEPTABLE LIMITS OF WHEN SPRAYING MATERIAL.

### VENTILATION:

EXHAUST VENTILATION SUFICIENT TO KEEP AIRBORN CONCENTRATIONS OF TDI BELOW THEIR TLV AND MGL MAXIMUM. REFER TO PATTY'S INDUSTRIAL HYGIENE AND TOXICOLOGY – VOLUME 1 (3<sup>RD</sup> EDITION) CHAPTER 17 AND VOLUME III (1<sup>ST</sup> EDITION) CHAPTER 3 FOR DETAILS

### PROTECTIVE GLOVES:

IMPERVIOUS GLOVES – NEOPRENE OR RUBBER

### EYE PROTECTION:

SPLASH GOGGLES OR GLASSES WITH SIDE SHIELDS. DO NOT WEAR CONTACT LENSES WHEN USING THIS PRODUCT.

### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WEAR BODY COVERING CLOTHING AND OTHER COVERINGS AS NECESSARY SUCH AS APRON AND APPROPRIATE FOOTWEAR TO AVOID CONTACT WITH MATERIAL.

### WORK HYGIENIC PRACTICES:

OBSERVE GOOD GENERAL HYGENIC PRACTICES.

## SECTION 11 NOTES:

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## SECTION 12: DISCLAIMER

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**DISCLAIMER:** The information Contained herein is based on the data available and is believed to be accurate, However, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.