

**ACCUMETRIC LLC  
350 RING ROAD  
ELIZABETHTOWN, KY 42701**

**MATERIAL SAFETY DATA SHEET**

---

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

*MATERIAL IDENTITY:*

PRODUCT NAME: BOSS® 343

*COMPANY:*

ACCUMETRIC LLC  
350 RING ROAD  
ELIZABETHTOWN, KY 42701  
270-769-3385

*EMERGENCY TELEPHONE NUMBERS:*

1-800-928-2677

---

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

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>% BY WT.</u>
Xylene, mixed isomers, pure Xn; R 10-20/21-38	1330-20-7	5 ± 3%
Diphenylmethane-4,4'-di-isocyanate Xn; R 20-36/37/38-42/43	101-68-8	0.1-0%
Distillates (petroleum) Hydrotreated light Xn: R 65	64742-47-8	<2%

---

### **SECTION 3. HAZARDS IDENTIFICATION**

#### *HAZARD DESCRIPTION:*

Xn: HARMFUL

R 42/43 MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.  
CONTAINS ISOCYANATES.

#### *POTENTIAL HEALTH EFFECTS:*

##### *EYE:*

MAY CAUSE MILD EYE IRRITATION. SYMPTOMS INCLUDE STINGING, TEARING, AND REDNESS.

##### *SKIN:*

MAY CAUSE SKIN IRRITATION. SYMPTOMS MAY INCLUDE REDNESS AND BURNING OF SKIN. ADDITIONAL SYMPTOMS OF SKIN CONTACT MAY INCLUDE ALLERGIC SKIN REACTION (DELAYED SKIN RASH WHICH MAY BE FOLLOWED BY BLISTERING, SCALING AND OTHER SKIN EFFECTS).

##### *SWALLOWING:*

SWALLOWING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. SWALLOWING LARGE AMOUNTS MAY BE HARMFUL.

##### *INHALATION:*

BREATHING OF VAPOR OR MIST IS POSSIBLE. BREATHING AEROSOL AND/OR MIST IS POSSIBLE WHEN MATERIAL IS SPRAYED. AEROSOL AND MIST MAY PRESENT A GREATER RISK OF INJURY BECAUSE MORE MATERIAL MAY BE PRESENT IN THE AIR THAN FROM VAPOR ALONE.

##### *SYMPTOMS OF EXPOSURE:*

SIGNS AND SYMPTOMS OF EXPOSURE TO THIS MATERIAL THROUGH BREATHING, SWALLOWING, AND/OR PASSAGE OF THE MATERIAL THROUGH THE SKIN MAY INCLUDE: STOMACH OR INTESTINAL UPSET (NAUSEA, VOMITING, DIARRHEA), IRRITATION (NOSE, THROAT, AIRWAYS), COUGH, TIGHT FEELING IN THE CHEST, HEADACHE, SHORTNESS OF BREATH, ALLERGIC REACTION (CAUSES NARROWING OF THE AIR PASSAGES OF THE LUNGS, SWEATING, FLUSHING, HIVES, RAPID HEART RATE, AND LOWERED BLOOD PRESSURE).

##### *PRIMARY ROUTES OF ENTRY:*

INHALATION, SKIN CONTACT, EYE CONTACT.

---

#### **SECTION 4. FIRST AID MEASURES**

*EYES:*

FLUSH EYES GENTLY WITH WATER WHILE HOLDING EYELIDS APART. IF SYMPTOMS PERSIST, OR THERE IS ANY VISUAL DIFFICULTY, SEEK MEDICAL ATTENTION.

*SKIN:*

REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. LAUNDRER CLOTHING BEFORE USE.

*SWALLOWING:*

SEEK MEDICAL ATTENTION. IF INDIVIDUAL IS DROWSY OR UNCONCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLACE INDIVIDUAL ON THE LEFT SIDE WITH THE HEAD DOWN. CONTACT A PHYSICIAN, MEDICAL FACILITY, OR POISON CONTROL CENTER FOR ADVICE ABOUT WHETHER TO INDUCE VOMITING. IF POSSIBLE, DO NOT LEAVE INDIVIDUAL UNATTENDED.

*INHALATION:*

IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. KEEP PERSON WARM AND QUIET; SEEK IMMEDIATE MEDICAL ATTENTION.

*NOTE TO PHYSICIANS:*

PREEXISTING DISORDERS OF THE FOLLOWING ORGANS (OR ORGAN SYSTEMS) MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL: RESPIRATORY TRACT, SKIN, LUNG (FOR EXAMPLE, ASTHMA-LIKE CONDITIONS).

---

#### **SECTION 5. FIRE FIGHTING MEASURES**

*SUITABLE EXTINGUISHING AGENTS* (CO<sub>2</sub>, EXTINGUISHING POWDER OR WATER SPRAY).

*FOR SAFETY REASONS UNSUITABLE EXTINGUISHING AGENTS* (WATER WITH FULL JET).

*SPECIAL HAZARDS CAUSED BY THE MATERIAL, ITS PRODUCTS OF COMBUSTION OR RESULTING GASES:*

IN CASE OF FIRE, THE FOLLOWING CAN BE RELEASED:

NITROGEN OXIDES (NO<sub>x</sub>)

CARBON MONOXIDE (CO)

IN CERTAIN FIRE CONDITIONS, TRACES OF OTHER TOXIC GASES CANNOT BE EXCLUDED, e.g.:

HYDROGEN CYANIDE (HCN)

ISOCYANATES

*PROTECTIVE EQUIPMENT*

WEAR SELF-CONTAINED RESPIRATORY PROTECTIVE DEVICE.

*HAZARDOUS PRODUCTS OF COMBUSTION:*

MAY FORM CARBON DIOXIDE AND CARBON MONOXIDE, HYDROGEN CYANIDE, NITROGEN COMPOUNDS, CARIOUS HYDROCARBONS.

*FIRE AND EXPLOSION HAZARDS:*

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPOSIVELY.

*EXTINGUISHING MEDIA:*

REGULAR FOAM, ALCOHOL FOAM, WATER FOG, CARBON DIOXIDE, DRY CHEMICAL.

*FIRE FIGHTING INSTRUCTIONS:*

WATER OR FOAM MAY CAUSE FROTHING WHICH CAN BE VIOLENT AND POSSIBLY ENDANGER THE LIFE OF THE FIREFIGHTER. WEAR A SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WITH APPROPRIATE TURN-OUT GEAR AND CHEMICAL RESISTANT PERSONAL PROTECTIVE EQUIPMENT. REFER TO THE PERSONAL PROTECTIVE EQUIPMENT SECTION OF THIS MSDS.

---

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

*PERSON-RELATED SAFETY PRECAUTIONS:*

PARTICULAR DANGER OF SLIPPING ON LEAKED/SPILLED PRODUCT.

ENSURE ADEQUATE VENTILATION.

USE RESPIRATORY PROTECTIVE DEVICE AGAINST THE EFFECTS OF FUMES/DUST/AEROSOL.

*MEASURES OF ENVIRONMENTAL PROTECTION:*

DO NOT ALLOW PRODUCT TO REACH SEWAGE SYSTEM OR ANY WATER COURSE.

*MEASURES FOR CLEANING/COLLECTING:*

ABSORB WITH LIQUID-BINDING MATERIAL (SAND, DIATOMITE, ACID BINDERS, UNIVERSAL BINDERS, SAWDUST).

---

## **SECTION 7. HANDLING AND STORAGE**

*HANDLING:*

ENSURE GOOD VENTILATION/EXHAUSTION AT THE WORKPLACE. OPEN AND HANDLE RECEPTACLE WITH CARE. KEEP IGNITION SOURCES AWAY-DO NOT SMOKE.

*STORAGE:*

*REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:*

STORE ONLY IN THE ORIGINAL RECEPTACLE.

*FURTHER INFORMATION ABOUT STORAGE CONDITIONS:*

KEEP RECEPTACLE TIGHTLY SEALED

STORE IN DRY CONDITIONS

STORE IN COOL PLACE

CONTAINER OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED.

SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

---

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

*COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE:*

1330-20-7 Xylene, mixed isomers, pure

PEL: 435 mg/m<sup>3</sup>, 100 ml/m<sup>3</sup>

*EYE PROTECTION:*

CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH ISHA REGULATIONS ARE ADVISED; HOWEVER OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES.

*SKIN PROTECTION:*

WEAR RESISTANT GLOVES SUCH AS: NITRILE RUBBER, BUTYL RUBBER, TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

*RESPIRATORY PROTECTIONS:*

IF WORKPLACE EXPOSURE LIMITS OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE EXPOSURE GUIDELINES), A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED, IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS (SEE YOUR INDUSTRIAL HYGIENIST). ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

*BOILING POINT:* 137°C

*FLASH POINT:* 40-55°C

*SPECIFIC VAPOR DENSITY*  
AT 20°C 1.17

*IGNITION TEMPERATURE:* 455°C

*FLAMMABILITY (solid)* THE PRODUCT IS NOT SUBJECT TO CLASSIFICATION BECAUSE ITS SPEED OF COMBUSTION IS LOWER THAN THE LIMITS OF THE REGULATION.

*DANGER OF EXPLOSION:* PRODUCT IS NOT EXPLOSIVE. HOWEVER, FORMATION OF EXPLOSIVE AIR/VAPOUR MIXTURES ARE POSSIBLE.

*EXPLOSION LIMITS:*

*LOWER:* 0.6 VOL%

*UPPER:* 8 VOL%

*FORM:* PASTY

*COLOR:* VARIOUS COLORS

*ODOUR:* LIGHT

---

## **SECTION 10. STABILITY AND REACTIVITY**

*THERMAL DECOMPOSITION / CONDITIONS TO BE AVOIDED:*

NO DECOMPOSITIONS IF USED ACCORDING TO SPECIFICATIONS.

*DANGEROUS REACTIONS:*

REACTS WITH ALCOHOLS, AMINES, AQUEOUS ACIDS AND ALKALIS.

REACTS WITH WATER FORMING CARBON DIOXIDE. DANGER OF RECEPTACLES BURSTING BECAUSE OF VAPOUR OVERPRESSURE.

*DANGEROUS PRODUCTS OF DECOMPOSITION:*

NONE TO OUR KNOWLEDGE AT ROOM TEMPERATURE.

---

## **SECTION 11. TOXICOLOGICAL INFORMATION**

*ACUTE TOXICITY:*

*LD/LC50 VALUES THAT ARE RELEVANT FOR CLASSIFICATION:*

1330-20-7 XYLENE, MIXED ISOMERS, PURE

ORAL LD50 8700mg/kg (rat)

DERMAL LD50 2000 mg/kg (rbt)

INHALATIVE LD50/4 h 6350 mg/ l (rat)

---

## **SECTION 12. ECOLOGICAL INFORMATION**

DO NOT ALLOW PRODUCT TO REACH GROUND WATER, WATER COURSE OR SEWAGE SYSTEM.

---

### **SECTION 13. DISPOSAL CONSIDERATION**

*WASTE MANAGEMENT INFORMATION:*

DESTROY BY LIQUID INCINERATION IN ACCORDANCE WITH APPLICABLE REGULATIONS.

THE PACKAGING MAY BE DECONTAMINATED FOR EXAMPLE WITH A MIXTURE OF SODIUM CARBONATE AND 95% OF WATER.

---

### **SECTION 14. TRANSPORTATION INFORMATION**

LAND TRANSPORT ADR/RID (cross-border)

REMARKS: Not Hazardous

MARITIME TRANSPORT IMDG:

MARINE POLLUTANT: NO

REMARKS: Not Hazardous

AIR TRANSPORT ICAO-TI AND IATA-DGR:

PROPER SHIPPING NAME: Not Regulated

---

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE AS OF THE DATA OF PREPARATION OF THIS MSDS AND WHICH WE BELIEVE TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA. WE SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD, OR APPARATUS MENTIONED. AND THE USER MUST MAKE HIS OWN INVESTIGATION TO DETERMINE THE SUITABILITY OF THE INFORMATION OR PRODUCTS FOR HIS PARTICULAR PURPOSE, FOR THE PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF THE USERS OF THIS MATERIAL.

DATE PREPARED: OCT.22<sup>nd</sup>, 2003