

**Material Safety Data Sheet****Product: 1516**

Printing date 10/09/2006

Reviewed on 10/09/2006

**1 Identification of substance**







- **Product details**
- **Trade name:** *Urethane Primer (Black)*
- **Article number:** 1516
- **Application of the substance / the preparation :** *Primer for adhesive or sealant*
- **Manufacturer/Supplier:**  
*International Epoxies & Sealers  
30241 Commerce Drive  
San Antonio, FL 33576  
Telephone: 1-800-451-7206*

*Emergency Information: INFOTRAC: 1-800-535-5053  
Outside the U.S. Call Collect: 1-352-323-3500*

**2 Composition/Data on components**

- **Chemical characterization**
- **Description:** *Mixture of polyisocyanates in organic solution*

· **Dangerous components:**

78-93-3	methylethylketone	 Xi,  F; R 11-36-66-67	40-60%
123-86-4	n-butyl acetate	R 10-66-67	20-30%
63368-95-6	aromatic-aliphatic polyisocyanate	 Xi; R 43	5-15%
28182-81-2	aliphatic polyisocyanate	 Xi; R 43-52/53	5-10%
4420-74-0	3-trimethoxysilylpropane-1-thiol	 Xn; R 21/22	< 2.5%
108-65-6	2-methoxy-1-methylethyl acetate	 Xi; R 10-36	< 2.5%

- **CAS NO. Description** % \* 584-84-9 + 91-08-7 : < 0,1
- **Additional information:** *For the wording of the listed risk phrases refer to section 16.*

**3 Hazards identification**· **Hazard description:**

Xi Irritant  
F Highly flammable

· **Information pertaining to particular dangers for man and environment:**

R 36 Irritating to eyes.  
R 43 May cause sensitization by skin contact.  
R 66 Repeated exposure may cause skin dryness or cracking  
R 67 Vapours may cause drowsiness and dizziness  
Contains isocyanates. See information supplied by the manufacturer.

· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0 - 4)**

Health = 1  
Fire = 3  
Reactivity = 2

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· **WHMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	3	Fire = 3
REACTIVITY	2	Reactivity = 2

**4 First aid measures**

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **The following symptoms may occur:**  
Headache  
Dizziness  
Gastric or intestinal disorders  
Dizziness  
Breathing difficulty

**5 Fire fighting measures**

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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:  
Carbon monoxide (CO)  
Hydrogen chloride (HCl)  
Nitrogen oxides (NO<sub>x</sub>)  
In certain fire conditions, traces of other toxic gases cannot be excluded.  
Hydrogen cyanide (HCN)  
Isocyanates
- **Protective equipment:** Mount respiratory protective device.

**6 Accidental release measures**

- **Person-related safety precautions:**  
Ensure adequate ventilation  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Keep away from ignition sources
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Send for recovery or disposal in suitable receptacles.  
Do not close them (reaction with water forming carbon dioxide)

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**7 Handling and storage**

- **Handling:**
- **Information for safe handling:**  
Open and handle receptacle with care.  
Ensure good interior ventilation, especially at floor level. (Vapors are heavier than air).
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

**8 Exposure controls and personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

**78-93-3 methylethylketone**

PEL	590 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
TLV	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm BEI

**123-86-4 n-butyl acetate**

PEL	710 mg/m <sup>3</sup> , 150 ppm
REL	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
TLV	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 713 mg/m <sup>3</sup> , 150 ppm

**108-65-6 2-methoxy-1-methylethyl acetate**

WEEL	50 ppm
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- **Additional information:** The lists that were valid during the creation were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Avoid contact with the eyes and skin.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Do not eat, drink or smoke while working.  
Avoid contact with the eyes.
- **Breathing equipment:**  
Filter A2B2-P3  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.  
Short term filter device:  
Filter A
- **Protection of hands:**  
PVA or natural rubber gloves of superior quality.  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Eye protection:** Tightly sealed goggles

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· **Body protection:** Protective work clothing**9 Physical and chemical properties**· **General Information**

**Form:** Fluid  
**Color:** Black  
**Odor:** Pungent

· **Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 79°C (174°F)

· **Flash point:** -8°C (18°F)· **Ignition temperature:** >200°C (>392°F)· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.· **Explosion limits:**

**Lower:** 1.8 Vol %  
**Upper:** 11.5 Vol %

· **Density at 20°C (68°F):** 1.00· **Solubility in / Miscibility with**

**Water:** Partly miscible.

· **Viscosity:**

**Dynamic at 20°C (68°F):** 50 mPa.s

· **Solvent content:**· **Solids content:** 30 %**10 Stability and reactivity**· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Materials to be avoided:**· **Dangerous reactions**

Reacts with alcohols, amines, aqueous acids and alkalis.

Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapour overpressure.

Reacts with strong oxidizing agents.

· **Dangerous products of decomposition:** No dangerous decomposition products known.**11 Toxicological information**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:****78-93-3 methylethylketone**

Oral	LD50	3300 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rbt)

**123-86-4 n-butyl acetate**

Oral	LD50	14000 mg/kg (rat)
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Inhalative LC50/4 h &gt;21.0 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Frequent or prolonged contact may irritate and cause dermatitis.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

**12 Ecological information**

- **Ecotoxicological effects:**
- **Other information:** -
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow product to reach ground water, water course or sewage system.

**13 Disposal considerations**

- **Product:**
- **Recommendation:**  
Must be disposed of in an incinerator for hazardous waste according to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- **DOT regulations:**



- **Hazard class:** 3
- **Identification number:** UN1866
- **Packing group:** II
- **Proper shipping name (technical name):** RESIN SOLUTION
- **Label:** 3

- **Land transport ADR/RID (cross-border):**



- **ADR/RID class:** 3 Flammable liquids
- **Danger code (Kemler):** 339
- **UN-Number:** 1866
- **Packaging group:** II
- **Description of goods:** 1866 RESIN SOLUTION

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1866
- **Label:** 3
- **Packaging group:** II

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- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Propper shipping name:** RESIN SOLUTION

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1866
- **Label:** 3
- **Packaging group:** II
- **Propper shipping name:** RESIN SOLUTION

## 15 Regulations

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

78-93-3 | methylethylketone

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogeny categories**

- **EPA (Environmental Protection Agency)**

78-93-3 | methylethylketone

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- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

584-84-9 | 4-methyl-m-phenylene diisocyanate

A4

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

584-84-9 | 4-methyl-m-phenylene diisocyanate

91-08-7 | 2-methyl-m-phenylene diisocyanate

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Product related hazard informations:**

The product has been classified and marked in accordance with EU Directives.

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**· Hazard symbols:**

*Xi Irritant*  
*F Highly flammable*

**· Hazard-determining components of labelling:**

*aromatic-aliphatic polyisocyanate*  
*aliphatic polyisocyanate*

**· Risk phrases:**

*36 Irritating to eyes.*  
*43 May cause sensitization by skin contact.*  
*66 Repeated exposure may cause skin dryness or cracking*  
*67 Vapours may cause drowsiness and dizziness*

**· Safety phrases:**

*7/9 Keep container tightly closed and in a well-ventilated place.*  
*16 Keep away from sources of ignition - No smoking.*  
*24 Avoid contact with skin.*  
*33 Take precautionary measures against static discharges.*  
*37 Wear suitable gloves.*

**· Special labeling of certain preparations:**

*Contains isocyanates. See information supplied by the manufacturer.*

**16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*