

# Safety Data Sheet

Product Name: DOI Hardener, Pint

Product identifier: 102312

Revision Date: 12-14-2015

Replaces:



## 1. Identification

**Product Name:** DOI Hardener, Pint  
**Product identifier:** 102312  
**Relevant identified uses of the substance or mixture and uses advised against:** Polymerization initiator/catalyst

### Other means of identification

**Chemical Manufacturer / Importer / Distributor:** ITW Evercoat  
a division of Illinois Tool Works Inc.  
6600 Cornell Road  
Cincinnati, OH 45242  
513-489-7600

**Emergency telephone number:** CHEMTREC: 1-800-424-9300  
CANUTEC: 1-613-996-6666

## 2. Hazard(s) identification

**Classification of the chemical in accordance with paragraph (d) of §1910.1200;**

GHS Hazard

Symbols:



**GHS Classification:** Respiratory Sensitisation Category 1A  
Skin Sensitisation Category 1A  
Germ Cell Mutagenicity Category 1B  
Hazardous to the aquatic environment - Acute Category 3  
Hazardous to the aquatic environment - Chronic Category 3

**GHS Signal Word:** Danger

**GHS Hazard Statements:** May cause an allergic skin reaction.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause genetic defects..  
Harmful to aquatic life.  
Harmful to aquatic life with long lasting effects.

**GHS Precautionary Statements:**

**Safety Precautions:** Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust/fume/gas/mist/vapours/spray.

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## First Aid Measures:

Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Use personal protective equipment as required.  
In case of inadequate ventilation wear respiratory protection.  
IF ON SKIN: Wash with plenty of soap and water.  
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF exposed or concerned: Get medical advice/attention.  
Specific treatment (see on this label).  
If skin irritation or rash occurs: Get medical advice/attention.  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
Wash contaminated clothing before reuse.

## Storage:

## Disposal:

## Hazards not otherwise classified:

No data available

### 3. Composition/information on ingredients

Chemical Component:	CAS number and other unique identifiers	% (or range) of ingredient
n-Butyl acetate	123-86-4	7 - 15
Solvent naphtha petroleum	64742-95-6	5 - 10
Heptyl Acetate	90438-79-2	5 - 10
1,2,4 Trimethylbenzene	95-63-6	1 - 5
Xylene	1330-20-7	0.1 - 1
Isophorone diisocyanate	4098-71-9	0.1 - 1
Hexamethylene diisocyanate	822-06-0	0.1 - 1
Ethyl Benzene	100-41-4	0.1 - 1

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

#### Eye Contact:

Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

#### Skin Contact:

Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

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<b>Inhalation:</b>	Thoroughly wash or discard clothing and shoes before reuse. Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
<b>Ingestion:</b>	Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.
<b>Immediate medical attention and special treatment needed,:</b>	No additional first aid information available

## 5. Fire-fighting measures

<b>Suitable extinguishing media:</b>	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used to extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.
<b>Unsuitable extinguishing media:</b>	No data available
<b>Fire and/or Explosion Hazards:</b>	Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.
<b>Hazardous Combustion Products:</b>	Carbon dioxide, Carbon monoxide, Hydrogen cyanide, Nitrogen containing gases
<b>Special protective equipment and precautions for fire-fighters:</b>	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.
<b>Methods and material for</b>	No special spill clean-up considerations. Collect and discard in

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containment and cleaning up: regular trash.

## 7. Handling and storage

**Precautions for safe handling:** Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

**Conditions for safe storage:** Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

**Materials to Avoid/Chemical Incompatibility::** Strong oxidizing agents Strong alkalies Strong acids Acids Amines Water Alcohols

## 8. Exposure controls/personal protection

### Limits:

Chemical Component	OSHA PEL	ACGIH TLV-TWA	ACGIH STEL
n-Butyl acetate	150 ppm	150 ppm	200 ppm STEL; 950 mg/m <sup>3</sup> STEL
1,2,4 Trimethylbenzene	No data available	25 ppm	No data available
Hexamethylene diisocyanate	No data available	0.005 ppm	No data available
Ethyl Benzene	100 ppm	100 ppm	No data available
Isophorone diisocyanate	No data available	0.005 ppm	No data available
Xylene	100 ppm	100 ppm	150 ppm

**Appropriate engineering controls.:** Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Ventilation is required to maintain operator exposure below published exposure limits. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits

**Eye Protection:** Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available. Wear goggles and a Face shield

**Skin Protection:** Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where contact is likely, wear chemical resistant gloves, a chemical suit,

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<b>Respiratory Protection:</b>	rubber boots, and chemical safety goggles plus a face shield Respiratory protection will be required when handling this product. Use respirators only if ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage must be implemented. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator. Wear a NIOSH approved respirator if any exposure is possible.
<b>Other Protective Equipment:</b>	Wear goggles and a Face shield Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield
<b>General Hygiene Conditions:</b>	Use spark-proof tools and explosion-proof equipment

## 9. Physical and chemical properties

<b>Appearance (physical state):</b>	Liquid
<b>Color:</b>	Clear Colorless
<b>Odor:</b>	Aromatic solvent odor
<b>Odor threshold:</b>	No data available
<b>pH:</b>	7
<b>Melting Point/Freezing Point (°C):</b>	No data available
<b>Initial Boiling Point and Boiling Range (°C):</b>	126
<b>Flash Point (°C):</b>	44 140
<b>Evaporation Rate:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Upper Flammable/Explosive Limit:</b>	7.6 %
<b>Lower Flammable/Explosive Limit:</b>	1.7 %
<b>Vapor Pressure:</b>	8 MMHG@20C/68F
<b>Vapor Density:</b>	No data available
<b>Relative Density:</b>	1.05
<b>Solubility(ies):</b>	Insoluble
<b>Partition coefficient: n-octanol/water:</b>	No data available
<b>Auto-ignition Temperature (°C):</b>	420 °C
<b>Decomposition Temperature::</b>	No data available
<b>Viscosity:</b>	No data available

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## 10. Stability and reactivity

<b>Reactivity:</b>	No data available
<b>Chemical stability:</b>	Stable under normal conditions.
<b>Conditions to avoid:</b>	None known. Contamination High temperatures.
<b>Incompatible materials:</b>	Strong oxidizing agents Strong alkalies Strong acids Acids Amines Water Alcohols
<b>Hazardous decomposition products:</b>	Carbon dioxide Carbon monoxide Hydrogen cyanide Nitrogen containing gases

## 11. Toxicological information

<b>Likely routes of exposure (inhalation, ingestion, skin and eye contact):</b>	Inhalation, Skin contact, Eye contact, Absorption, Ingestion
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### **Immediate (Acute) Health Effects by Route of Exposure:**

<b>Inhalation Irritation:</b>	Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. Harmful! Can cause severe irritation or burns and lung inflammation. Central nervous system effects such as dizziness, weakness, fatigue, nausea, headache, and unconsciousness are possible. Other possible symptoms include; wheezing and coughing due to pulmonary edema (fluid build-up in lungs).
<b>Inhalation Toxicity:</b>	Harmful! Can cause systemic damage (see "Target Organs)
<b>Skin Contact:</b>	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
<b>Skin Absorption:</b>	May cause irritation and minor systemic damage.
<b>Eye Contact:</b>	Can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.
<b>Ingestion Irritation:</b>	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.
<b>Ingestion Toxicity:</b>	Harmful if swallowed. May cause systemic poisoning.

### **Long-Term (Chronic) Health Effects:**

<b>Carcinogenicity:</b>	None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA.
<b>Reproductive and Developmental Toxicity:</b>	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
<b>Mutagenicity:</b>	May cause genetic defects..
<b>Inhalation:</b>	Upon prolonged and/or repeated exposure, can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. Harmful! Can cause systemic damage upon prolonged and/or repeated exposure

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**Skin Contact:** (see "Target Organs")  
Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

**Skin Absorption:** Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause minor systemic damage.

## Component Toxicology Data

Chemical Component	Oral LD50	Dermal LD50	Inhalation LC50
No data available			

Has the chemical been classified as a Carcinogen by NTP, IARC or OSHA.

Chemical Name	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen
No data available			

## 12. Ecological information

**Ecotoxicity (aquatic and terrestrial, where available):** Harmful to aquatic life. Toxic to aquatic life with long lasting effects. Toxic to aquatic life. Components of this product are hazardous to wildlife and aquatic life.

**Persistence and degradability:** No data available

**Mobility in soil:** No data available

**Other adverse effects (such as hazardous to the ozone layer):** No data available

### Données sur l'écotoxicité

Chemical Component	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
No data available			

## 13. Disposal considerations

**Description of waste residues:** Spent or discarded material is a hazardous waste.

**Waste treatment methods (including packaging):** Dispose of by incineration following Federal, State, Local, or Provincial regulations.

**Waste Disposal Code(s):** D001

## 14. Transport information

**UN number:** UN1263

**UN proper shipping name:** PAINT RELATED MATERIAL

**Transport hazard class(es):** 3

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Packing group: II

The shipper is responsible for following all applicable regulations. The transportation classification provided is based on ITW Evercoat original packaging, which is suitable for domestic ground transport only.

## 15. Regulatory information

Statut TSCA: All components in this product are on the TSCA Inventory.

### Regulated Components:

Chemical Component	CAS number and other unique identifiers	CERCLA	SARA EHS	SARA 313	California Prop 65
Hexamethylene diisocyanate	822-06-0	N	N	Y	N
Ethyl Benzene	100-41-4	N	N	N	Y
Isophorone diisocyanate	4098-71-9	N	N	Y	N
Xylene	1330-20-7	N	N	Y	N

## 16. Other information, including date of preparation or last revision.

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