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## SECTION: 1. Product and company identification

### 1.1. Product identifier

Trade name/designation : 3/8" Chem-Stud, 1/2" Chem-Stud, 5/8" Chem-Stud, 3/4" Chem-Stud, 7/8" Chem-Stud, 1" Chem-Stud, 1-1/4" Chem-Stud

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Specific use(s) : Building and construction work

### 1.3. Details of the supplier of the safety data sheet

Company : Powers Fasteners, inc.  
2 Powers Lane, Brewster, NY 10509  
Telephone: 800-524-3244  
Telefax: 877-871-1965  
E-mail: info@powers.com

### 1.4. Emergency telephone number

Emergency telephone : (CHEMTREC) Within USA: (800) 424-9300;  
Outside USA: 01 (703) 527-3887

## SECTION: 2. Hazards identification

### 2.1. Classification of the substance or mixture

OSHA Regulatory Status : This material is classified as hazardous under OSHA regulations.  
GHS-US classification : Flam. Liq. 3  
GHS-US classification : Skin Irrit. 2  
GHS-US classification : Eye Irrit. 2A  
GHS-US classification : Skin Sens. 1  
GHS-US classification : STOT RE 1

Full text of H-statements: see section 16

### 2.2. Label elements

Hazard pictograms (GHS-US) :




Signal word (GHS-US) :

Hazard statements (GHS-US) :

Danger  
Flammable liquid and vapor  
Causes skin irritation  
May cause an allergic skin reaction  
Causes serious eye irritation  
Causes damage to organs through prolonged or repeated exposure  
Precautionary statements (GHS-US) : Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

### 2.3. Other hazards

Other hazards which do not result in : Not applicable

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classification

### SECTION: 3. Composition/Information on ingredients

Substance name	CAS No	%
Styrene	100-42-5	1 - 12,5
Dibenzoyl peroxide	94-36-0	0,5 - 2,5
1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	0 - 0,75

### SECTION: 4. First aid measures

#### 4.1. Description of first aid measures

Inhalation	: Provide fresh air. Put victim at rest, cover with a blanket and keep warm. In case of doubt or persistent symptoms, consult always a physician
Skin contact	: Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water . Call a physician if irritation develops or persists.
Eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In case of doubt or persistent symptoms, consult always a physician
In case of ingestion	: Get medical advice/attention
First-aid measures general	: First aider: Pay attention to self-protection! See also section 8 Never give anything by mouth to an unconscious person or a person with cramps. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

#### 4.2. Most important symptoms and effects, both acute and delayed

Inhalation	: No adverse effects are expected. May be irritating.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: No adverse effects are expected.
Other adverse effects	: Causes damage to organs through prolonged or repeated exposure.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available


### SECTION: 5. Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder
Extinguishing media to avoid	: Strong water jet

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapor.
Specific hazards	: Hazardous decomposition products COx. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation

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### **5.3. Advice for firefighters**

- Advice for firefighters
- : Special protective equipment for firefighters.
  - Use water spray or fog for cooling exposed containers
  - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - No smoking.
  - Do not allow run-off from fire-fighting to enter drains or water courses.
  - Dispose of waste in accordance with environmental legislation

## **SECTION: 6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

- For non-emergency personnel
- : Evacuate personnel to a safe area
  - Use personal protective equipment as required.
  - Reference to other sections: 8
  - Provide adequate ventilation
  - Avoid contact with skin, eyes and clothing
  - Do not breathe vapors/dust.
  - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - Ensure equipment is adequately grounded
  - Take precautionary measures against static discharges
  - Do not allow to enter into surface water or drains
- For emergency responders
- : Ensure procedures and training for emergency decontamination and disposal are in place
  - Concerning personal protective equipment to use, see item 8.

### **6.2. Methods and material for containment and cleaning up**

- Spill or leak statements by chemical
- : Use appropriate personal protection equipment (PPE).
  - Exclude sources of ignition and ventilate the area
  - Prevent runoff from entering drains, sewers or waterways.
  - Collect in closed and suitable containers for disposal.


## **SECTION: 7. Handling and storage**

### **7.1. Precautions for safe handling**

- Advices on general occupational hygiene
- : Keep good industrial hygiene
  - Wash hands and face before breaks and immediately after handling of the product.
  - Take off contaminated clothing.

### **7.2. Conditions for safe storage, including any incompatibilities**

- Storage
- : Keep container tightly closed in a cool, well-ventilated place.
  - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - Keep away from food, drink and animal feeding stuffs
  - Keep storage temperature below 77 °F
  - Keep away from heat
  - Protect from sunlight.
  - Do not store near or with any of the incompatible materials listed in section 10.

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## SECTION: 8. Exposure controls/personal protection

### 8.1. Exposure guidelines


<b>Styrene (100-42-5)</b>		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	40 ppm
IDLH	US IDLH (ppm)	700 ppm
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	215 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	50 ppm
NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	425 mg/m <sup>3</sup>
NIOSH	NIOSH REL (STEL) (ppm)	100 ppm
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm
Québec	VECD (mg/m <sup>3</sup> )	426 mg/m <sup>3</sup>
Québec	VECD (ppm)	100 ppm
Québec	VEMP (mg/m <sup>3</sup> )	213 mg/m <sup>3</sup>
Québec	VEMP (ppm)	50 ppm
<b>Dibenzoyl peroxide (94-36-0)</b>		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
IDLH	US IDLH (mg/m <sup>3</sup> )	1500 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Québec	VEMP (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

### 8.2. Engineering controls

- Engineering control measures :
- Use only in area provided with appropriate exhaust ventilation.
  - Take precautionary measures against static discharge
  - Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure
  - Organizational measures to prevent /limit releases, dispersion and exposure
  - See also section 7
- Environmental exposure controls :
- Do not allow contact with soil, surface or ground water.
  - Comply with applicable environmental protection legislation.

### 8.3. Personal protective equipment (PPE)

- Personal protection equipment (PPE) :
- The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Respiratory protection :
- In case of insufficient ventilation, wear suitable respiratory equipment
  - Full face mask
  - Half face Air-Purifying
  - Filter type: A
- Hand protection :
- Wear chemically resistant gloves. Impervious gloves Butyl caoutchouc (butyl rubber) Breakthrough time (maximum wearing time) : > 120 min The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
- Eye protection :
- Safety glasses
- Body protection :
- Wear suitable protective clothing.

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Thermal hazard protection : Not required for normal conditions of use

## SECTION: 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	: capsules
Color	: Colorless
Odor	: characteristic
Odor threshold:	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: 87.8 °F Resin
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper/lower flammability or explosive limits	: No data available
Vapor pressure	: No data available
Vapor density	: No data available
Relative density	: No data available
Water solubility	: insoluble
Solubility in different media	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: (@73,4 °F) 420 - 520 mPa.s Resin
Explosive properties	: Not applicable, The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidizing properties	: Not applicable The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with explosive properties.

## SECTION: 10. Stability and reactivity

### 10.1. Reactivity

Reactivity	: Flammable liquid and vapor. Reference to other sections: 10.5
------------	--

### 10.2. Chemical stability


Stability	: The product is stable under storage at normal ambient temperatures.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	: heat : Polymerization can occur
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### 10.4. Conditions to avoid

Conditions to avoid	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. See also section 7
---------------------	--

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Handling and storage

**10.5. Incompatible materials**

Incompatible materials : Strong oxidizing agents Strong bases Strong acids See also section 7 Handling and storage

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Burning produces noxious and toxic fumes. (COx).

**SECTION: 11. Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

<b>Styrene (100-42-5)</b>	
LD50 oral rat	1000 mg/kg
LC50 inhalation rat (mg/l)	11,8 mg/l
<b>Dibenzoyl peroxide (94-36-0)</b>	
LD50 oral rat	7710 mg/kg

Skin corrosion/irritation : Causes skin irritation.  
pH: No data available

Serious eye damage/irritation : Causes serious eye irritation.  
pH: No data available

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

<b>Styrene (100-42-5)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen
	In OSHA Hazard Communication Carcinogen list

<b>Dibenzoyl peroxide (94-36-0)</b>	
IARC group	3 - Not classifiable


Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : Not classified (Based on available data, the classification criteria are not met)

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LOAEL (inhalation, rat, dust/mist/fume)	4320 mg/l/4h male, acute, systemic (1 hour)

Specific target organ toxicity (repeated exposure) : Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)  
Other adverse effects : Causes damage to organs through prolonged or repeated exposure.  
Other information : Symptoms related to the physical, chemical and toxicological characteristics.  
Reference to other sections: 4.2.

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Other information : Symptoms related to the physical, chemical and toxicological characteristics  
Reference to other sections: 4.2

## SECTION 12: Ecological information

### 12.1.Toxicity

Toxicity : Harmful to aquatic life with long lasting effects .

<b>Styrene (100-42-5)</b>	
LC50 fish 1	3,24 - 4,99 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	3,3 - 7,4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	1,4 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
LC50 fish 2	19,03 - 33,53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 other aquatic organisms 2	500 mg/l Bacteria
EC50 other aquatic organisms 2	0,72 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
NOEC (acute)	44 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])
NOEC (additional information)	NOEC, Daphnia : 1,01 mg/l (21d)

### 12.2.Persistence and degradability

Persistence and degradability : No data available

### 12.3.Bioaccumulative potential

Bioaccumulative potential : No data available

Partition coefficient n-octanol/water : No data available

### 12.4.Mobility in soil

Mobility : No data available

### 12.5.Other adverse effects

Other information : No information available

## SECTION 13: Disposal considerations

### 13.1.Waste treatment methods

Product waste: : Handle with care.  
Safe handling: see section 7  
Handling and storage  
Do not allow to enter into surface water or drains  
Dispose of contaminated materials in accordance with current regulations  
Refer to manufacturer/supplier for information on recovery/recycling.  
Collect and dispose of waste product at an authorized disposal facility.

Contaminated packaging : In accordance with local and national regulations.


Further ecological information : Should not be released into the environment.

## SECTION 14: Transport information

### 14.1. Basic shipping description

#### DOT

UN-No.(DOT) : 1866

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Proper Shipping Name (DOT) : Resin solution (flammable)

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : II - Medium Danger

Hazard labels (DOT) : 3 - Flammable liquid



Special provisions : When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons). Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. 2.65 178.274(d)(2) Normal..... 178.275(d)(3) The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / 1 + a (tr - tf)$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).

**14.2 Additional information**

**IMDG**

IMDG : If shipped by vessel in quantities LESS than 30L, IMDG 2.3.2.5 exception applies: Not regulated as a hazardous material. State on shipping documents: "Transport in accordance with 2.3.2.5 of the IMDG code."

UN-No. (ADR) : 1866

Proper shipping name IATA/IMDG : IATA : RESIN SOLUTION

Class or Division : -

Packing group : III

**ICAO/IATA**

UN-No. (ADR) : 1866

Proper shipping name IATA/IMDG : IATA : RESIN SOLUTION

Class or Division : -

Subsidiary Class : IATA : 3 - Flammable liquids

Packing group : III

**SECTION: 15. Regulatory information**


**15.1. US Federal regulations**

**Styrene (100-42-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
 Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting 0,1 %



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**1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Dibenzoyl peroxide (94-36-0)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting 1,0 %

**15.2. International regulations**

**15.2.1. CANADA**

**Styrene (100-42-5)**

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class B Division 2 - Flammable Liquid  
Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

**1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)**

Listed on the Canadian DSL (Domestic Substances List)

**Dibenzoyl peroxide (94-36-0)**

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class C - Oxidizing Material  
Class D Division 2 Subdivision B - Toxic material causing other toxic effects  
Class F - Dangerously Reactive Material

**15.2.2. National regulations**

**Styrene (100-42-5)**


Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Japanese Pollutant Release and Transfer Register Law (PRTR Law)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Listed on INSQ (Mexican national Inventory of Chemical Substances)  
Listed on Turkish inventory of chemical

**1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)**

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

**Dibenzoyl peroxide (94-36-0)**

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Listed on INSQ (Mexican national Inventory of Chemical Substances)  
Listed on Turkish inventory of chemical

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### 15.3. US State regulations

#### Glass

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	

#### Quartz (respirable dust <1%) (14808-60-7)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
Yes	No	No	No	

#### Styrene (100-42-5)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	

#### 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	

#### dicyclohexyl phthalate (84-61-7)


U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	

#### Dibenzoyl peroxide (94-36-0)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	


#### Styrene (100-42-5)

- U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute
- U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic
- U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. - Colorado - Groundwater Quality Standards
- U.S. - Colorado - Primary Drinking Water Regulations - Maximum Contaminant Level Goals (MCLGs)
- U.S. - Colorado - Primary Drinking Water Regulations - Maximum Contaminant Levels (MCLs)
- U.S. - Connecticut - Drinking Water Quality Standards - Maximum Contaminant Levels
- U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
- U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
- U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
- U.S. - Florida - Drinking Water Standards - Volatile Organic Contaminants - Maximum Contaminant Levels (MCLs)

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**Styrene (100-42-5)**

- U.S. - Georgia - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
- U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
- U.S. - Idaho - Occupational Exposure Limits - Acceptable Maximum Peak Above the Ceiling Concentration for an 8-Hour Shift
- U.S. - Idaho - Occupational Exposure Limits - Ceilings
- U.S. - Idaho - Occupational Exposure Limits - TWAs
- U.S. - Illinois - Toxic Air Contaminant Carcinogens
- U.S. - Illinois - Toxic Air Contaminants
- U.S. - Louisiana - Reportable Quantity List for Pollutants
- U.S. - Maine - Air Pollutants - Hazardous Air Pollutants
- U.S. - Maine - Chemicals of High Concern
- U.S. - Massachusetts - Allowable Ambient Limits (AALs)
- U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)
- U.S. - Massachusetts - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
- U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
- U.S. - Massachusetts - Right To Know List
- U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)
- U.S. - Massachusetts - Toxics Use Reduction Act
- U.S. - Michigan - Occupational Exposure Limits - STELs
- U.S. - Michigan - Occupational Exposure Limits - TWAs
- U.S. - Michigan - Polluting Materials List
- U.S. - Minnesota - Chemicals of High Concern
- U.S. - Minnesota - Hazardous Substance List
- U.S. - Minnesota - Permissible Exposure Limits - STELs
- U.S. - Minnesota - Permissible Exposure Limits - TWAs
- U.S. - Missouri - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - Nebraska - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - New Hampshire - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
- U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
- U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
- U.S. - New Jersey - Environmental Hazardous Substances List
- U.S. - New Jersey - Primary Drinking Water Standards - Maximum Contaminant Levels - MCLs
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - New Jersey - Special Health Hazards Substances List
- U.S. - New Jersey - Water Quality - Ground Water Quality Criteria
- U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)
- U.S. - New York - Occupational Exposure Limits - Ceilings
- U.S. - New York - Occupational Exposure Limits - TWAs
- U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
- U.S. - North Carolina - Control of Toxic Air Pollutants
- U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
- U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
- U.S. - North Dakota - Water Quality Standards - Human Health Value for Classes I, IA, II
- U.S. - Oregon - Permissible Exposure Limits - Ceilings
- U.S. - Oregon - Permissible Exposure Limits - STELs
- U.S. - Oregon - Permissible Exposure Limits - TWAs
- U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups
- U.S. - Pennsylvania - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) List
- U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour
- U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 24-Hour


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		Supersedes :

**Styrene (100-42-5)**

- U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual
- U.S. - South Carolina - Maximum Contaminant Levels (MCLs)
- U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations
- U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories
- U.S. - Tennessee - Occupational Exposure Limits - STELs
- U.S. - Tennessee - Occupational Exposure Limits - TWAs
- U.S. - Texas - Drinking Water Standards - Maximum Contaminant Levels (MCLs)
- U.S. - Texas - Effects Screening Levels - Long Term
- U.S. - Texas - Effects Screening Levels - Short Term
- U.S. - Utah - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - Vermont - Permissible Exposure Limits - STELs
- U.S. - Vermont - Permissible Exposure Limits - TWAs
- U.S. - Washington - Permissible Exposure Limits - STELs
- U.S. - Washington - Permissible Exposure Limits - TWAs
- U.S. - West Virginia - Water Quality - Groundwater Standards - Ceiling Concentrations
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

**Dibenzoyl peroxide (94-36-0)**

- U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
- U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
- U.S. - Delaware - Accidental Release Prevention Regulations - Sufficient Quantities
- U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
- U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
- U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
- U.S. - Idaho - Occupational Exposure Limits - TWAs
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
- U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
- U.S. - Massachusetts - Right To Know List
- U.S. - Massachusetts - Toxics Use Reduction Act
- U.S. - Michigan - Occupational Exposure Limits - TWAs
- U.S. - Michigan - Process Safety Management Highly Hazardous Chemicals
- U.S. - Minnesota - Hazardous Substance List
- U.S. - Minnesota - Permissible Exposure Limits - TWAs
- U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
- U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
- U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
- U.S. - New Jersey - Environmental Hazardous Substances List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - New Jersey - Special Health Hazards Substances List
- U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS)
- U.S. - New York - Occupational Exposure Limits - TWAs
- U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
- U.S. - Oregon - Permissible Exposure Limits - TWAs
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) List
- U.S. - Tennessee - Occupational Exposure Limits - TWAs
- U.S. - Texas - Effects Screening Levels - Long Term
- U.S. - Texas - Effects Screening Levels - Short Term
- U.S. - Vermont - Permissible Exposure Limits - TWAs
- U.S. - Washington - Permissible Exposure Limits - STELs
- U.S. - Washington - Permissible Exposure Limits - TWAs

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**Dibenzoyl peroxide (94-36-0)**

U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet  
 U.S. - Wyoming - Process Safety Management - Highly Hazardous Chemicals

**SECTION: 16. Other information**

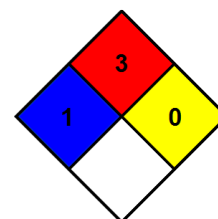
Issue date : 21/09/2015  
 Supersedes :  
 Key literature references and sources for data : Supplier msds, LOLI.  
 Abbreviations and acronyms : OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)  
 TWA = time weighted average  
 LC50 = Median lethal concentration  
 LD50 = Median lethal dose  
 LL50 = Median lethal level  
 EC50 = Median Effective Concentration  
 EL50 = Median effective level  
 ErC50 = EC50 in terms of reduction of growth rate  
 ErL50 = EL50 in terms of reduction of growth rate  
 NOEL = no-observed-effect level  
 NOEC = No observed effect concentration  
 NOELR = No observed effect loading rate  
 NOAEC = No observed adverse effect concentration  
 NOAEL = No observed adverse effect level  
 NA = Not applicable  
 VOC = Volatile organic compounds  
 Quantitative structure-activity relationship (QSAR)

Full text of H-statements:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids, Category 3
Org. Perox. B	Organic Peroxides, Type B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, hazard category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H226	Flammable liquid and vapour
H241	Heating may cause a fire or explosion
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H372	Causes damage to organs through prolonged or repeated exposure


**NFPA-code**

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.  
 NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all ambient conditions.  
 NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



**HMIS III Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

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		Supersedes :

Flammability : 3 Serious Hazard  
Physical : 0 Minimal Hazard

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