

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING  
OF PRODUCT

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**MSDS CODE AND NAME** : **JL80X SURFONIC® JL-80X**  
**DATE ISSUED** : **7/1/2004**  
**DATE PRINTED** : **7/1/2004**

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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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**MATERIAL IDENTITY****MSDS CODE AND NAME****JL80X SURFONIC® JL-80X****Chemical Name and/or Family or Description:**

Nonionic surfactant/defoamer - alcohol alkoxyate

**COMPANY INFORMATION**

Huntsman Petrochemical Corporation  
P.O. Box 4980  
The Woodlands, TX 77387-4980

**TELEPHONE NUMBERS**

Transportation Emergency

Company: (409) 727-0831

CHEMTREC: (800) 424-9300

Medical Emergency: (409) 722-9673 (24 Hour)

General MSDS Assistance: (281) 719-6432

Technical Information: (512) 459-6543

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**2. COMPOSITION AND INFORMATION ON INGREDIENTS**

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**THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION ARE AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION.**

**Product and/or Component(s) Carcinogenic According to:****OSHA IARC NTP OTHER NONE X****Composition:**

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Exposure Limits</b>	<b>Range in %</b>
Alcohols, C10-C12, ethoxylated, propoxylated	68154-97-2		100

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### 3. HAZARD IDENTIFICATION

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#### EMERGENCY OVERVIEW

**Appearance:**

Clear liquid

**Odor:**

Slight

#### WARNING STATEMENT

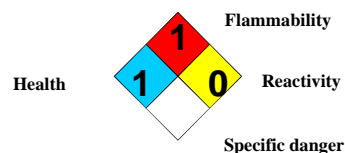
CAUTION!

MAY CAUSE EYE IRRITATION

**Hazardous Material  
Information System  
(United States)**

Health	2
Fire	1
Reactivity	0
Personal protection	

**National Fire Protection  
Association NFPA  
(United States)**



#### POTENTIAL HEALTH EFFECTS

**Primary Route of Exposure**

Eye X Skin X Inhalation X Ingestion

**Effects of Overexposure**

**Acute:**

**Eyes:**

May cause irritation, experienced as discomfort or pain, and seen as excess redness and swelling of the eye, and possible injury to the cornea.

**Skin:**

Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling. Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact; see other effects, below, and Section 11 for information regarding potential long term effects.

**Inhalation:**

Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

**Ingestion:**

May cause abdominal discomfort, nausea, and diarrhea.

**Sensitization Properties:** Unknown

**Chronic:**

No adverse effects have been documented in humans as a result of chronic exposure. Section 11 may contain applicable animal data.

**Medical Conditions Aggravated by Exposure:**

There is no evidence that this product aggravates an existing medical condition.

**Other Remarks:**

None

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

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**Eyes:**

Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

**Skin:**

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

**Ingestion:**

If patient is conscious and can swallow, give two glasses of water (16 oz.). Induce vomiting as directed by medical personnel. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

**Inhalation:**

If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

**Other Instructions:**

None

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#### **5. FIRE-FIGHTING MEASURES**

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**Ignition Temperature - AIT (degrees C):**

Not determined.

**Flash Point (degrees C):**

190.5 (375 F) (COC)

**Flammable Limits % (Lower-Upper):**

**Lower:** Not determined.

**Upper:** Not determined.

**Recommended Fire Extinguishing Agents And Special Procedures:**

Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

**Unusual or Explosive Hazards:**

None

**Special Protective Equipment for Firefighters:**

Wear full protective clothing and positive pressure breathing apparatus. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.

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#### **6. ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800)424-9300)**

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**Procedures in Case of Accidental Release, Breakage or Leakage:**

Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

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## 7. HANDLING AND STORAGE

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### Precautions to be Taken in

#### Handling:

Minimum feasible handling temperatures should be maintained. Eye wash should be available nearby when this product is handled or used.

#### Storage:

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Protective Equipment (Type)

#### Eye/Face Protection:

Avoid eye contact. Chemical type goggles should be worn. Do not wear contact lenses.

#### Skin Protection:

Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

#### Respiratory Protection:

Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

#### Ventilation:

Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

#### Exposure Limit for the Total Product:

None established for product.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Appearance:

Clear liquid

### Odor:

Slight

### Boiling Point (degrees C):

Not determined.

### Melting/Freezing Point (degrees C):

-6.1 (21 F)

### Specific Gravity (water=1):

1.0072

### pH:

7

### Vapor Pressure:

Not determined.

### Viscosity:

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34 cSt at 40 C (104 F)

**VOC Content:**

1% by ASTM D 2369

**Vapor Density (Air=1):**

>1

**Solubility in Water (%):**

>10

**Other:**

None

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## 10. STABILITY AND REACTIVITY

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**This Material Reacts Violently With:**

Air Water Heat Strong Oxidizers Others None of these X

**Comments:**

None

**Products Evolved When Subjected to Heat or Combustion:**

Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning. Heating in air may produce irritating aldehydes, acids, and ketones.

**Hazardous Polymerizations:**

DO NOT OCCUR

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## 11. TOXICOLOGICAL INFORMATION

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**TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)**

**Oral:**

LD50 2.06 g/kg (rat) slightly toxic

**Inhalation:**

Not determined.

**Dermal:**

LD50 > 2.00 g/kg (rabbit) practically non-toxic

**IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)**

**Skin:**

(Draize) .54 /8.0 (rabbit) slightly irritating

**Eyes:**

(Draize) 42.30 /110 (rabbit) moderately irritating

**Sensitization:**

Not determined.

**Other:**

This product may contain residual (less than 100 ppm) concentrations of ethylene oxide and/or propylene oxide. Ethylene oxide causes tumors in laboratory animals; there is evidence that propylene oxide also causes tumors in laboratory animals.

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## 12. DISPOSAL CONSIDERATIONS:

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### Waste Disposal Methods:

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

### Remarks:

None

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## 13. TRANSPORT INFORMATION

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### Transportation

#### DOT:

##### Proper Shipping Name:

Not regulated

##### Hazard Class:

Not regulated

##### Identification Number:

Not regulated

##### Packing Group:

Not regulated

##### Label Required:

Not regulated

Depending on container size, spills of this product may require reporting under SARA 304 and/or CERCLA 102(A) regulations. Please refer to Sections 2 and 14 of MSDS for composition and component RQ information.

#### IMDG

##### Proper Shipping Name:

Not regulated.

#### ICAO

##### Proper Shipping Name:

Not regulated.

#### TDG

##### Proper Shipping Name:

Not regulated

##### Hazard Class:

Not regulated

##### Identification Number:

Not regulated

##### Label Required:

Not regulated

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#### 14. REGULATORY INFORMATION

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##### Federal Regulations:

###### SARA Title III:

###### Section 302/304 Extremely Hazardous Substances

Chemical Name	CAS Number	Range in %	TPQ	RQ
Residual ethylene oxide (typical)	75-21-8	<0.01	1000	10
Residual propylene oxide (typical)	75-56-9	<0.01	10000	100

###### Section 311 Hazardous Categorization:

Acute X Chronic Fire Pressure Reactive N/A

###### Section 313 Toxic Chemical

Chemical Name	CAS Number	Concentration
None.		

###### CERCLA 102(a)/DOT Hazardous Substances:

Chemical Name	CAS Number	Range in %	RQ
Residual ethylene oxide (typical)	75-21-8	<0.01	10
Residual propylene oxide (typical)	75-56-9	<0.01	100

###### States Right-to-Know Regulations:

Chemical Name	State Right-to-know
None.	

###### California Prop. 65:

The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

Chemical Name	CAS Number
Residual ethylene oxide (typical)	75-21-8
Residual propylene oxide (typical)	75-56-9

##### INTERNATIONAL REGULATIONS:

###### TSCA Inventory Status:

This product, or its components, are listed on or are exempt from the the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

###### WHMIS Classification:

Class D, Div 2, Subdiv B: Irritant

###### Canadian Inventory Status:

This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

###### EINECS Inventory Status:

This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).

###### Australian Inventory Status:

This product, or its components, are listed on or are exempt from the Australian Inventory of Chemical Substances (AICS).

###### Japan Inventory Status:

This product, or its components, are listed on or are exempt from the Japanese Ministry of International Trade and Industry (MITI) inventory.

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## 15. ENVIRONMENTAL INFORMATION

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### Aquatic Toxicity:

LC50-96hr Aquatic toxicity rating is believed to be > 1.00 - 10.00 ppm, moderately toxic

### Mobility:

Not determined.

### Persistence and Biodegradability:

Not determined.

### Potential to Bioaccumulate:

Not determined.

### Remarks:

None

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## 16. OTHER INFORMATION 7/1/2004

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Ethoxylated/propoxylated products may contain residual amounts of free ethylene oxide (EO) and/or propylene oxide (PO), which can accumulate in the container headspace and be released into the ambient environment. This process is enhanced when the product is agitated, as during tank car loading and unloading, and blending operations. Ethylene oxide causes tumors in laboratory animals; there is evidence that propylene oxide also causes tumors in laboratory animals. The Occupational Safety and Health Administration (OSHA) Permissible Exposure Level (PEL) for EO is 1.0 ppm for an eight-hour time weighted average exposure. The standard regulates occupational exposure to EO from all sources, including products containing residual EO. It is the responsibility of the employer to comply with the OSHA ethylene oxide standard (29 CFR 1910.1047). The OSHA-PEL for PO is 100 ppm for an eight-hour time weighted average exposure. The ACGIH eight-hour time weighted average exposure limit for PO is 2.0 ppm.

Date Issued: 7/1/2004.

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MANAGER, PRODUCT SAFETY  
P.O. BOX 4980  
THE WOODLANDS, TX 77387-4980

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