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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Tel: (630) 766-2112</b></p> <p>E-mail: <a href="mailto:sales@chemimpex.com">sales@chemimpex.com</a></p> <p><b>Shipping and Correspondence:</b></p> <p>935 Dillon Drive</p> <p>Wood Dale, IL 60191 USA</p> | <p><b>Fax: (630) 766-2218</b></p> <p>Web site: <a href="http://www.chemimpex.com">www.chemimpex.com</a></p> <p><b>Manufacturing site:</b></p> <p>825 Dillon Drive</p> <p>Wood Dale, IL 60191 USA</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Fax: (630) 766-2218**

Web site: [www.chemimpex.com](http://www.chemimpex.com)

**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191 USA

## SECTION 1. CHEMICAL IDENTIFICATION

NAME: Thiamine hydrochloride

24 HOUR EMERGENCY TELEPHONE: (800) 535-5053(USA)  
352-323-3500 (INTERNATIONAL)

TO REQUEST AN MSDS: (800) 869-9290

CUSTOMER SERVICE: (630) 766-2112

|        |                                                     |
|--------|-----------------------------------------------------|
| CAS #: | 67-03-8                                             |
| MF:    | C <sub>12</sub> H <sub>17</sub> ClN <sub>4</sub> OS |

MF:  $\text{C}_{12}\text{H}_{17}\text{ClN}_4\text{OS}$

MW: 337.27

PURITY:

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### SECTION 3. HAZARDS IDENTIFICATION

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NOT AVAILABLE.

#### **POTENTIAL HEALTH EFFECTS**

THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN INVESTIGATED. USE APPROPRIATE PROCEDURES TO PREVENT OPPORTUNITIES FOR DIRECT CONTACT WITH THE SKIN OR EYES AND TO PREVENT INHALATION.

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### SECTION 4. FIRST-AID MEASURES

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EYES: NOT AVAILABLE.

SKIN: NOT AVAILABLE.

INHALATION: NOT AVAILABLE.

INGESTION: DO NOT INDUCE VOMITING. IF CONSCIOUS AND ALERT, RINSE MOUTH AND DRINK 2-4 CUPFULS OF MILK OR WATER.

NOTES FOR PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

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### SECTION 5. FIRE FIGHTING MEASURES

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FLASH POINT: NOT AVAILABLE

AUTOIGNITION  
TEMPERATURE: NOT AVAILABLE

FLAMMABLE LIMITS IN AIR, BY % VOLUME  
UPPER: NOT AVAILABLE  
LOWER: NOT AVAILABLE

EXTINGUISHING  
MEDIA: NOT AVAILABLE.

GENERAL  
INFORMATION: AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING  
APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH  
(APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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USE PROPER PERSONAL PROTECTIVE EQUIPMENT AS INDICATED IN SECTION 8.

SPIILLS AND LEAKS: SWEEP UP, THEN PLACE INTO A SUITABLE CONTAINER FOR  
DISPOSAL.

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## SECTION 7. HANDLING AND STORAGE

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HANDLING NOT AVAILABLE.

STORAGE KEEP COOL AND DRY

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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|                       |                                                                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| ENGINEERING CONTROLS: | USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP AIRBORNE CONCENTRATIONS BELOW THE PERMISSIBLE EXPOSURE LIMITS.                                 |
| EYES:                 | WEAR SAFETY GLASSES AND CHEMICAL GOGGLES IF SPLASHING IS POSSIBLE.                                                                                       |
| SKIN AND CLOTHING:    | WEAR APPROPRIATE PROTECTIVE GLOVES AND CLOTHING TO PREVENT SKIN EXPOSURE.<br>WEAR APPROPRIATE PROTECTIVE CLOTHING TO MINIMIZE CONTACT WITH SKIN.         |
| RESPIRATORS:          | WEAR A NIOSH/MSHA OR EUROPEAN STANDARD EN 149 APPROVED FULL-FACEPIECE AIRLINE RESPIRATOR IN THE POSITIVE PRESSURE MODE WITH EMERGENCY ESCAPE PROVISIONS. |

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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|                          |                          |
|--------------------------|--------------------------|
| APPEARANCE:              | White crystalline powder |
| pH:                      | NOT AVAILABLE            |
| VAPOR PRESSURE:          | NEGLIGIBLE.              |
| VISCOSITY:               | NOT AVAILABLE            |
| BOILING POINT:           |                          |
| FREEZING / MELTING POINT | 260°C (dec)              |

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## SECTION 10. STABILITY AND REACTIVITY

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|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| CHEMICAL STABILITY:                   | STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.          |
| CONDITIONS TO AVOID                   | INCOMPATIBLE MATERIALS.                                  |
| INCOMPATIBILITY WITH OTHER MATERIALS: | OXIDIZING AGENTS, REDUCING AGENTS, BASES, ALKALI METALS. |
| HAZARDOUS DECOMPOSITION PRODUCTS:     | CARBON MONOXIDE, CARBON DIOXIDE.                         |
| HAZARDOUS POLYMERIZATION:             | HAS NOT BEEN REPORTED.                                   |

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## SECTION 11. TOXICOLOGICAL INFORMATION

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RTECS#:

CAS# 67-03-8

LD50/LC50:

CAS# 67-03-8 :

NOT AVAILABLE.

CARCINOGENICITY:

CAS# 67-03-8 : NOT LISTED BY ACGIH, IARC, NIOSH, NTP, OR OSHA. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

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SECTION 12. ECOLOGICAL INFORMATION

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DATA NOT YET AVAILABLE.

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SECTION 13. DISPOSAL CONSIDERATIONS

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DISPOSE OF IN A MANNER CONSISTENT WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

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SECTION 14. TRANSPORT INFORMATION

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NO INFORMATION AVAILABLE.

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SECTION 15. REGULATORY INFORMATION

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**U.S. FEDERAL REGULATIONS:**

**TSCA:**

CAS# 67-03-8 IS LISTED ON THE TSCA INVENTORY.

**EUROPEAN/INTERNATIONAL REGULATIONS**

**EUROPEAN LABELING IN ACCORDANCE WITH EC DIRECTIVES**

**HAZARD SYMBOLS:** NOT AVAILABLE.

**RISK PHRASES:**

**SAFETY PHRASES:**

S 24/25 AVOID CONTACT WITH SKIN AND EYES.

**WGK (WATER DANGER/PROTECTION)**

CAS# 67-03-8 : NO INFORMATION AVAILABLE.

**UNITED KINGDOM OCCUPATIONAL EXPOSURE LIMITS****UNITED KINGDOM MAXIMUM EXPOSURE LIMITS****CANADA - DSL/NDSL**

CAS# 67-03-8 IS LISTED ON CANADA'S DSL LIST.

**CANADIAN INGREDIENT DISCLOSURE LIST**

CAS# 67-03-8 : IS NOT LISTED ON CANADA'S INGREDIENT DISCLOSURE LIST.

**EXPOSURE LIMITS**

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**SECTION 16. OTHER INFORMATION**

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**MSDS LEGEND:**

|        |                                                              |
|--------|--------------------------------------------------------------|
| MW:    | MOLECULAR WEIGHT                                             |
| MF:    | MOLECULAR FORMULA                                            |
| VOC:   | VOLATILE ORGANIC COMPOUNDS                                   |
| ACGIH: | AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL<br>HYGIENISTS |
| CAS:   | CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER                   |
| OSHA:  | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION                |
| PEL:   | PERMISSIBLE EXPOSURE LIMIT (OSHA)                            |
| TLV:   | THRESHOLD LIMIT VALUE (ACGIH)                                |

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