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Safety Data Sheet (SDS) www.HMTsolder. To comply with European CLP Regulation 1272/2008, US 29CFR 1910.1200 OSHA's Hazard Communication Standard, and Australian NOHSC: 1008 [2004] and ADG Code 7.4

# **1. PRODUCT AND COMPANY IDENTIFICATION**

| PRODUCT NAME:<br>SYNONYMS:      | HMT Solder Liquid Flux Series: HMT7-LF, HMT8-LF, HMT9-LF, HMT43-LF  |
|---------------------------------|---|
| PART NUMBERS:                   | HMT7-LF, HMT7-LF-1GAL, HMT7-LF-5GAL, HMT7-LF-55GAL, HMT8-LF, HMT8-LF-1GAL, HMT8-LF-5GAL, HMT8-LF-<br>55GAL, HMT9-LF, HMT9-LF-1GAL, HMT9-LF-5GAL, HMT9-LF-55GAL, HMT43-LF, HMT43-LF-1GAL, HMT43-LF-5GAL,<br>HMT43-LF-55GAL |
| MANUFACTURER:                   | HMT Solder Inc.   |
| ADDRESS:                        | 357 Lang Blvd, Grand Island, NY 14072 (USA)   |
| PHONE:                          | 8-1500 Sandhill Dr., Ancaster, ON L9G 4V5 (Canada)<br>(800) 717-2786  |
| EMERGENCY PHONE:                | (800) 424-9300 (USA and Canada 24/7 CHEMTREC)   |
| REVISION DATE:                  | 2021/04/22  |
| REVISION NUMBER:<br>REVISED BY: | 1.0<br>HMT Solder Product Safety  |
|                                 |   |

PRODUCT USE: Bonding solder joints in production and repair of circuit boards. This product is for industrial use only.

# 2. HAZARD IDENTIFICATION

Classified in accordance with European CLP Regulation 1272/2008

| Acute Tox.  | 4 |
|-------------|---|
| Eye Irrit.  | 2 |
| Flam. Liq.  | 2 |
| Skin Sens.  | 1 |
| Skin Irrit. | 3 |
| Resp. Sens. | 1 |
| STOT SE     | 3 |
|             |   |

| CHEMICAL NAME:    | NA          |
|-------------------|-------------|
| CHEMICAL FAMILY:  | Mixture     |
| CHEMICAL FORMULA: | Proprietary |

**ROUTES OF ENTRY:** 

TARGET ORGANS: NA

GHS/CLP:



Signal Word: Danger

# **GHS/CLP LABEL ELEMENTS:**

| Hazard statement(s) |  |
|---------------------|--|
| H225                | Highly flammable liquid and vapor.   |
| H302                | Harmful if swallowed.  |
| H315                | Causes skin irritation.  |
| H317                | May cause an allergic skin reaction.                                       |
| H319                | Causes serious eye irritation.   |
| H332                | Harmful if inhaled.  |
| H334                | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335                | May cause respiratory irritation.  |
| H336                | May cause drowsiness or dizziness.   |

Inhalation, Ingestion, Skin/Eye Contact

Precautionary statement(s)

| P102 | Keep out of reach of children.  |
|------|---|
| P201 | Obtain special instructions before use.                                   |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P233 | Keep container tightly closed.  |
| P260 | Do not breathe dust/fume/gas/mist/vapor/spray.                            |

| P262                     | Do not get in eyes, on skin, or on clothing.  |
|--------------------------|---|
| P264                     | Wash hands thoroughly after handling.   |
| P270                     | Do not eat, drink, or smoke when using this product.  |
| P271                     | Use in a well-ventilated area.  |
| P272                     | Contaminated work clothing should not be allowed out of the workplace.  |
| P273                     | Avoid release to the environment.   |
| P280                     | Wear protective gloves/protective clothing/eye protection/face protection.  |
| P284                     | In case of inadequate ventilation wear respiratory protection.  |
| P301/P330/P331/P310      | IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER/Doctor.   |
| P303/P361/P352/P333/P313 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with soap & water. Get medical advice/attention if   |
|                          | skin irritation or rash occurs or if you feel unwell.   |
| P304/P340/312            | IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if  |
|                          | you feel unwell.  |
| P305/P351/338/P310       | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue   |
|                          | rinsing. Immediately call POISON CENTER/Doctor.   |
| P308/P313                | IF EXPOSED OR CONCERNED: Get medical advice/attention.  |
| P342/P311                | IF EXPERIENCING RESPIRATORY SYMPTOMS: Call POISON CENTER/Doctor.  |
| P362                     | Take off contaminated clothing and wash it before reuse.  |
| P370/P378                | IN CASE OF FIRE: Use appropriate media for extinction.  |
| P391                     | Collect spillage.   |
| P402/P404                | Store in a dry place. Store in a closed container.  |
| P405                     | Store locked up.  |
| P501                     | Dispose of contents/container in accordance with local/regional/national/international regulations.   |
| POTENTIAL HEALTH EFFE    | CTS:  |
| EVE CONTACT.             | Management of the second second and the second se |

# EYE CONTACT: May cause moderate irritation. Do not allow material to come in contact with eyes. SKIN CONTACT: May cause moderate skin irritation. INHALATION: Dizziness, blurred vision, headache, irritation of the mucous membranes, loss of appetite, and inability to concentrate. INGESTION: Harmful if swallowed. May cause irritation to the mouth, throat, and stomach. May cause abdominal discomfort, nausea, vomiting, and/or diarrhea. CHRONIC: Not established.

**MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:** Diseases of the blood-forming organs, kidneys, nervous and possibly reproductive systems. Occupational Asthma.

# SECTION 2 NOTES:

HMT Solder Inc. does not recommend, manufacture, market, or endorse any of its products for human consumption.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Classified in accordance with European CLP Regulation 1272/2008

| Hazardous Ingredients <sup>(1)</sup> | C.A.S. Number | Weight Percent | OSHA PEL          | ACGIH TLV TWA     | LD 50 Ingested | LD 50 Inhaled    |
|--------------------------------------|---------------|----------------|-------------------|-------------------|----------------|------------------|
|                                      |               |                | mg/m <sup>3</sup> | mg/m <sup>3</sup> | g/Kg           | g/m <sup>3</sup> |
| Isopropyl Alcohol                    | 67-63-0       | <95            | NE                | NE                | NE             | NE               |
|                                      | 200-661-7     |                |                   |                   |                |                  |
| Ethanol                              | 64-17-5       | <97            | NE                | NE                | NE             | NE               |
| Methanol                             | 67-56-1       | 8-15           | NE                | NE                | NE             | NE               |
| Mineral Spirits                      | 8032-32-4     | 3-9            | NE                | NE                | NE             | NE               |
| Dimethylamine                        | 506-59-2      | 2-6            | NE                | NE                | NE             | NE               |
| Hydrochloride                        |               |                |                   |                   |                |                  |
| Carboxylic Acid                      | 68937-69-9    | 1-6            | NE                | NE                | NE             | NE               |
| Hydrobromic Acid                     | 10035-10-6    | 1-5            | NE                | NE                | NE             | NE               |
| Alkanolamine                         | 141-43-5      | 1-5            | NE                | NE                | NE             | NE               |
| СТАВ                                 | 57-09-0       | 0.1-3.0        | NE                | NE                | NE             | NE               |

| Non-Hazardous Ingredients | C.A.S. Number          | Weight Percent | OSHA PEL          | ACGIH TLV TWA     | LD 50 Ingested | LD 50 Inhaled |
|---------------------------|------------------------|----------------|-------------------|-------------------|----------------|---------------|
|                           |                        |                | mg/m <sup>3</sup> | mg/m <sup>3</sup> | g/Kg           | g/m³          |
| Water                     | 7732-18-5<br>231-791-2 | 25-35          | NE                | NE                | NE             | NE            |
| Surfactants               | NA                     | <4             | NE                | NE                | NE             | NE            |
| Rheological Modifier      | NA                     | <5             | NE                | NE                | NE             | NE            |

# SECTION 3 NOTES:

(1) Per 29 CFR 1910 the mixture has not been tested as a whole. All hazardous components, which comprise 1% of the mixture (0.1% carcinogenic), are listed. Percentages of individual components are not listed as this information is considered a trade secret.

(2) The identity of the specific chemical(s) is being withheld as a trade secret per 29 CFR 1910.1200. The hazardous properties of these ingredients are disclosed in this SDS.

# 4. FIRST-AID MEASURES

EYES: Flush with plenty of water, contact a physician. If contact lenses can be removed easily, flush eyes without contact lenses.

SKIN: Wash affected area with plenty of warm, soapy water. If irritation persists, seek medical attention.

INGESTION: Call a physician or Poison Control Center immediately. Do not induce vomiting.

INHALATION: Remove to fresh air or administer oxygen. If not breathing, seek immediate medical attention.

# 5. FIREFIGHTING MEASURES

| EXTINGUISHING MEDIA:                | Dry chemical, foam  |  |  |
|-------------------------------------|---|--|--|
| SPECIAL FIRE FIGHTING PROCEDURES:   | Do not use water. Use NIOSH-approved self-contained Breathing Apparatus and full protective clothing if involved in a fire. |  |  |
| UNUSUAL FIRE AND EXPLOSION HAZARDS: | Highly flammable liquid and vapor.  |  |  |

6. ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: If material spills or leaks collect and place it in a plastic or glass jar. Follow on-site personal protective equipment recommendations.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Collect spillage.

#### **SECTION 6 NOTES:**

See Sections 2, 4, and 7 for additional information.

#### 7. HANDLING AND STORAGE

HANDLING/STORAGE: Keep containers tightly closed when not in use. Use care to avoid spills. Avoid inhalation of fumes. Avoid contact with eyes, skin, and clothing. Store in a closed corrosive resistant container, with corrosive resistant liner, in cool dry place. Wear appropriate personal protective equipment when working with or handling. Always wash hands thoroughly after handling this product. Dispose of following Federal, State/Provincial, and Local regulations.

OTHER PRECAUTIONS: Empty containers may retain product residues in vapor, liquid, and/or solid form. All labeled hazard precautions should be observed.

WORK HYGIENIC PRACTICES: Cosmetics/Food/Drink/Tobacco should not be consumed or used in work areas. Always wash hands after handling material and before applying or using cosmetics/food/drink/tobacco.

#### SECTION 7 NOTES:

For industrial use only. Keep out of reach of children. Not for internal consumption.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Occupational Exposure Limit Values:**

| Isopropyl Alcohol | 67-63-0  |
|-------------------|--|
| Austria           | 200 ppm TWA [TMW] (short time value for large casting); 500 mg/m3 TWA [TMW] (short time value for large casting)             |
|                   | 800 ppm STEL [KZW] 4 X 15 min; 2000 mg/m3 STEL [KZW] 4 X 15 min; 800 ppm STEL [KZW] (STEL for large casting valid            |
|                   | till 12/31/2013) 4 X 30 min; 2000 mg/m3 STEL [KZW] (STEL for large casting valid till 12/31/2013) 4 X 30 min                 |
| Belgium           | 200 ppm TWA; 500 mg/m3 TWA   |
| -                 | 400 ppm STEL; 1000 mg/m3 STEL  |
| Denmark           | 200 ppm TWA; 490 mg/m3 TWA   |
| Finland           | 200 ppm TWA; 500 mg/m3 TWA   |
|                   | 250 ppm STEL, 620 mg/m3 STEL   |
| France            | 400 ppm STEL [VLCT]; 980 mg/m3 STEL [VLCT]   |
| Germany (TRGS)    | 200 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)             |
|                   | exposure factor 2; 500 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW             |
|                   | values are observed) exposure factor 2   |
| Germany (DFG)     | 200 ppm TWA MAK; 500 mg/m3 TWA MAK   |
|                   | 400 ppm Peak; 1000 mg/m3 Peak  |
| Greece            | 400 ppm TWA; 980 mg/m3 TWA   |
|                   | 500 ppm STEL; 1225 mg/m3 STEL  |
| Ireland           | 200 ppm TWA  |
|                   | 400 ppm STEL   |
|                   | Potential for cutaneous absorption   |
| Portugal          | 200 ppm TWA [VLE-MP]   |
| 0                 | 400 ppm STEL [VLE-CD]  |
| Spain             | 200 ppm TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary |
|                   | or biocide compound); 500 mg/m3 TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this      |
|                   | substance as a phytosanitary or biocide compound)  |
|                   | 400 ppm STEL [VLA-EC]; 1000 mg/m3 STEL [VLA-EC]  |
| Sweden            | 150 ppm LLV; 350 mg/m3 LLV   |
|                   | 250 ppm STV; 600 mg/m3 STV   |
| United Kingdom    | 400 ppm TWA; 999 mg/m3 TWA   |
| Ū                 | 500 ppm STEL; 1250 mg/m3 STEL  |
| ACGIH             | 200 ppm TWA  |
|                   | 400 ppm STEL   |
| NIOSH             | 400 ppm TWA; 980 mg/m3 TWA   |
|                   | 500 ppm STEL: 1225 mg/m3 STEL  |
|                   | 2000 ppm IDLH (10% LEL)  |

| OSHA (US) | 400 ppm TWA; 980 mg/m3 TWA                        |
|-----------|---|
| Mexico    | 400 ppm TWA LMPE-PPT; 980 mg/m3 TWA LMPE-PPT      |
|           | 500 ppm STEL [LMPE-CT]; 1225 mg/m3 STEL [LMPE-CT] |

Also see section 3.

ENGINEERING CONTROLS: Based on available information, additional ventilation is not required. Ensure compliance with applicable exposure limits.

**RESPIRATORY PROTECTION:** Use with adequate ventilation.

EYE PROTECTION: Use with appropriate safety glasses (EU: EN 166-S).

SKIN PROTECTION: Not required.

**WORK HYGIENIC PRACTICES:** Cosmetics/Food/Drink/Tobacco should not be consumed or used in areas where solder products may be used. Always wash hands after handling soldering products and before applying or using cosmetics/food/drink/tobacco.

**OTHER:** Maintain eye wash stations in work areas. Avoid the use of contact lenses in high fume areas. Clean protective equipment regularly. Clean up spills immediately.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** ODOR: ODOR THRESHOLD: pH as SUPPLIED: **MELTING POINT:** FREEZING POINT: **INITIAL BOILING POINT: BOILING RANGE:** FLASH POINT: **EVAPORATION RATE:** FLAMMABILITY (solid): **UPPER/LOWER FLAMMABILITY: UPPER/LOWER EXPLOSIVE LIMITS:** VAPOR PRESSURE (mmHg): VAPOR DENSITY (AIR = 1): SPECIFIC GRAVITY (WATER = 1): **RELATIVE DENSITY:** SOLUBILITY IN WATER: **PARTITION COEFFICIENT (n-octanol/water): AUTOIGNITION TEMPERATURE: DECOMPOSITION TEMPERATURE:** VISCOSITY:

**10. STABILITY AND REACTIVITY** 

#### REACTIVITY: STABILITY: CONDITIONS TO AVOID (STABILITY): INCOMPATIBILITY (MATERIAL TO AVOID): HAZARDOUS DECOMPOSITION/BY-PRODUCTS: POSSIBILITY OF HAZARDOUS REACTIONS:

Alcohol N/A N/A N/A -89°C (literature value) +82°C (literature value) N/A 12°C (estimated based on isopropyl alcohol) N/A N/A NE 12% (V) / 2% (V) 33 mmHg @ 20°C (literature value) 2.1 (literature value) 0.7855 @ 20°C (literature value) NE 100% 0.05 (measured value) 399°C (literature value) N/A N/A

Clear, White, or Yellow to Dark Amber liquid

Not known to occur Stable under normal conditions of use Avoid direct sunlight Aldehydes, halogenated compounds, halogens, strong acids, strong oxidizing agents Oxides of carbon Hazardous polymerization will not occur

**11. TOXICOLOGICAL INFORMATION** 

# Component Analysis - LD50/LC50

 The components of this material have been reviewed in various sources and the following selected endpoints are published:

 Isopropyl alcohol (67-63-0)

 Oral LD50
 Rat 5045 mg/kg

 Dermal LD50
 Rabbit 12800 mg/kg

 Inhalation LC50
 Rat 1600 ppm 4 h

Irritation/Corrosivity Data

Causes serious eye irritation.

Respiratory Sensitization No data available

Dermal Sensitization No data available

Germ Cell Mutagenicity No data available

# **Component Carcinogenicity**

| component carcinogenicity |   |
|---------------------------|---|
| Isopropyl alcohol         | 67-63-0                                     |
| ACGIH                     | A4 - Not Classifiable as a Human Carcinogen |
|                           |   |

#### **Reproductive toxicity** No data available

Specific Target Organ Toxicity - Single Exposure No information available

Specific Target Organ Toxicity - Repeated Exposure No information available

# Aspiration hazard

No data available

**12. ECOLOGICAL INFORMATION** 

Avoid release to the environment.

#### **Component Analysis - Aquatic Toxicity:**

| Isopropyl Alcohol             | 67-63-0   |
|-------------------------------|---|
| Fish                          | LC50 96 h Pimephales promelas 9640 mg/L [flow-through]; LC50 96 h Pimephales promelas 11130 mg/L  |
|                               | [static]; LC50 96 h Lepomis macrochirus >1400000 µg/L   |
| Algae                         | EC50 96 h Desmodesmus subspicatus >1000 mg/L IUCLID; EC50 72 h Desmodesmus subspicatus >1000 mg/L |
| _                             | IUCLID  |
| Invertebrate                  | EC50 48 h Daphnia magna 13299 mg/L IUCLID   |
|                               |   |
| Persistence and degradability | N/A   |

N/A

N/A

**Bioaccumulative potential** Mobility in soil Results of PBT and vPvB assessment EU - Interim Strategy for Management of PBT and vPvB Substances Other adverse effects

No components of this material are listed. No additional information available.

#### **13. DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Scrap and waste should be recycled or stored in a dry, sealed container for later disposal. Disposal must be in accordance with Federal, State/Provincial, and Local Regulations.

# **14. TRANSPORT INFORMATION**

Transport in accordance with applicable regulations and requirements.

Excepted Quantities (EQ) Code: E2 (≤30ml per inner package, ≤500ml per outer package) For Reference Only

| For Reference Only.      |                |
|--------------------------|----------------|
| UN Number:               | 1219           |
| UN Proper Shipping Name: | Isopropanol, 3 |
| Packaging Group:         | PG II          |
| Environmental Hazards:   | None           |
|                          |                |

#### TRANSPORT HAZARD CLASSES:

| US DOT Hazardous Material Classification: | Not regulated - Quantity Limitations (≤5,000ml aircraft/rail, ≤60,000ml cargo aircraft)<br>Hazmat at all levels, not regulated below limited guantities / excepted guantities |
|---|---|
| Water Transportation:                     | Not regulated   |
| IATA Hazardous Material Classification:   | Not regulated - Excepted Quantities (EQ) Code: E2 (≤30ml per inner package, ≤500ml per outer<br>package)  |
| ADR Road Regulations                      | Not regulated - Excepted Quantities (EQ) Code: E2 (≤30ml per inner package, ≤500ml per outer<br>package)  |
| IMDG Sea Regulations                      | Not regulated - Excepted Quantities (EQ) Code: E2 (≤30ml per inner package, ≤500ml per outer<br>package)  |
| ADG Land Transportation                   | Not regulated   |

#### **15. REGULATORY INFORMATION**

All ingredients used to manufacture this product are listed on the EPA TSCA Inventory. Finished product is not listed on the EPA TSCA Inventory.

#### **U.S. FEDERAL REGULATIONS:**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b) ronyl Alcohol 67 62 0

| Isopropyl Alconol  | 07-03-0  |
|--------------------|--|
| SARA 313           | 1 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification) |
|                    |  |
| Ethanol            | 64-17-5  |
| SARA 313           |  |
| STATE REGULATIONS: | Not regulated  |

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

| Isopropyl Alcohol | 67-63-0 |
|-------------------|---------|
|                   | 1%      |

Not regulated

EU - REACH (1907/2006) - Annex XIV List of Substances Subject to Authorization

No components of this material are listed.

INTERNATIONAL REGULATIONS:

EU - REACH (1907/2006) - Article 59(1) Candidate List of Substances Subject to Authorization

No components of this material are listed.

EU - REACH (1907/2006) - Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles

No components of this material are listed.

EU - Biocides (1451/2007) - Existing Active Substance

| Isopropyl Alcohol | 67-63-0 |
|-------------------|---------|
|                   | Present |

Germany Regulations Germany Water Classification Isopropyl alcohol (67-63-0) ID Number 135, hazard class 1 - low hazard to waters Denmark Regulations No components of this material are listed. Chemical Safety Assessment

No chemical safety assessment has been carried out for the substance/mixture.

#### AUSTRALIAN REGULATIONS:

Australia inventory (AICS): This material is listed or exempted

### **16. OTHER INFORMATION**

| LEGEND: |   |
|---------|---|
| ACGIH   | American Conference of Governmental Industrial Hygienists                           |
| ADG     | Australian Dangerous Goods Code   |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| AICS    | Australian Inventory of Chemical Substances   |
| BCF     | Bioconcentration factor   |
| C.A.S.  | Chemical Abstract Service   |
| CLP     | Classification, Labeling and Packaging  |
| DOT     | Department of Transportation  |
| EC      | Effective Concentration   |
| EPA     | Environmental Protection Agency   |
| GHS     | Global Harmonized System  |
| HMIS    | Hazardous Material Identification System  |
| IARC    | International Agency for Research on Cancer   |
| ΙΑΤΑ    | International Air Transport Association   |
| IMDG    | International Maritime Dangerous Goods Code   |
| LC      | Lethal Concentration  |
| LD      | Lethal Dose   |
| NA      | Not available   |
| NE      | Not established   |
| NIOSH   | National Institute for Occupational Safety & Health                                 |
| NOEC    | No observed effective concentration   |
| NOHSC   | National Occupational Health and Safety Commission (Australia)                      |
| NTP     | National Toxicology Program   |
| OSHA    | Occupational Safety and Health Administration                                       |
| PEL     | Permissible Exposure Limit  |
| Pow     | Octanol water partition coefficient   |
| SDS     | Safety Data Sheet   |
| STEL    | Short-Term Exposure Limit   |
| STOT    | Specific target organ toxicity  |
| TLV     | Threshold Limit Value   |
| TSCA    | Toxic Substance Control Act   |
| TWA:    | Time Weighted Average   |
| US DOT: | United States Department of Transportation  |

# **PREPARATION INFORMATION:**

This update supersedes all previously released documents.

#### DISCLAIMER:

The information and recommendations contained within this publication have been compiled from sources believed to be reliable and to represent the best information available to HMT Solder at the time of issue. No warranty, guarantee, or representation is made by HMT Solder nor does HMT Solder assume any responsibility in connection there within; nor can it be assumed that all acceptable safety measures or other safety measures may not be required under particular or exceptional conditions or circumstances. The data on this Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved and necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Safety Data Sheet as a source for hazard information.