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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Name of product NHR-TH LFM-48 S

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

#### Identified uses

#### Sector of uses [SU]

Soldering Material

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

#### Distributor

Almit GmbH  
Unterer Hammer 3, DE-64720 Michelstadt  
Phone : +49 (0)6061 969250, Fax : +49 (0)6061 9692518  
E-Mail : info@almit.de  
Internet : www.almit.de

#### Advice

Uwe Niedermayer  
E-mail (competent person):  
uniedermayer@almit.de

### 1.4. Emergency telephone number

#### Manufacturer

Nihon Almit Co. Ltd.  
Almit Building 2-14-2, Yayoicho, Nakano-ku, JP-164 Tokyo  
164-8666  
Phone : +81 333792277  
E-Mail : tokyo2@almit.co.jp  
Internet : www.almit.com

### 1.4. Emergency telephone number

No information available.

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

| Hazard classes and Hazard categories | Hazard Statements | Classification procedure |
|--------------------------------------|-------------------|--------------------------|
| Resp. Sens. 1                        | H334              |                          |
| Skin Sens. 1                         | H317              |                          |

#### Hazard statements for health hazards

H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### 2.2. Label elements

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**

GHS07



GHS08

**Signal word**

Danger

**Hazard statements for health hazards**

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Precautionary Statements****Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P285 In case of inadequate ventilation wear respiratory protection.

**Response**

P302 + P352 IF ON SKIN: Wash with plenty of water/... .

P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

**Storage**

P403 + P235 Store in a well-ventilated place. Keep cool.

**Supplemental Hazard information (EU)****Health properties**

Repeated exposure may cause skin dryness or cracking.

**2.3. Other hazards****Adverse physicochemical effects**

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

**Adverse human health effects and symptoms**

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

May cause sensitization in susceptible people.

Inhalation of dust may cause irritation of the respiratory system.

**Other adverse effects**

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

Process vapours can irritate airways, skin and eyes.

**Information pertaining to special dangers for human and environment**

Harmful by inhalation, in contact with skin and if swallowed.

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**SECTION 3: Composition/ information on ingredients****3.1. Substances**

not applicable

**3.2. Mixtures****Hazardous ingredients**

| CAS No    | EC No     | Name             | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] |
|-----------|-----------|------------------|------------|--|
| 8050-09-7 | 232-475-7 | colophony        | 1,6 - 3,7  | Skin Sens. 1, H317   |
| 7440-22-4 | 231-131-3 | silver, metallic | 2,8 - 3,2  |  |
| 7440-31-5 | 231-141-8 | Tin              | 93 - 95    |  |
| 7440-50-8 | 231-159-6 | Copper           | 0,3 - 0,7  |  |

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**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.

In case of allergic reactions, specially at respiratory tract, seek medical treatment immediately.

**In case of inhalation**

Remove the casualty into fresh air and keep him immobile.

If intensive inhalation of fumes seek medical treatment immediately.

**In case of skin contact**

In case of contact with skin wash off immediately with plenty of water.

Consult a doctor if skin irritation persists.

**In case of eye contact**

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

**In case of ingestion**

Rinse out mouth and give plenty of water to drink.

Induce vomiting if patient is conscious, seek medical advice.

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

No information available.

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

No information available.

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**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Fire-extinguishing activities according to surrounding.

Foam

Dry fire-extinguishing substance

Dry powder

Carbon dioxide

sand

**Unsuitable extinguishing media**  
water

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

In case of fire formation of dangerous gases possible.

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Do not inhale explosion and/or combustion gases.

**Additional information**

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**SECTION 6: Accidental release measures**

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

**For non-emergency personnel**

Use personal protective clothing.

Use breathing apparatus if exposed to vapours/dust/aerosol.

Pay attention to extension of gas especially at ground (heavier than air) and in direction of the wind.

**6.2. Environmental precautions**

Do not discharge into the drains or bodies of water..

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

**6.3. Methods and material for containment and cleaning up**

Send in suitable containers for recovery or disposal.

**Additional Information**

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

Informations for disposal see chapter 13.

**6.4. Reference to other sections**

No information available.

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**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Use only in well-ventilated areas.

**General protective measures**

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

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**Hygiene measures**

At work do not eat, drink, smoke or take drugs.  
Keep separated from food and feed.  
Wash hands and skin before breaks and after work.

**Advice on protection against fire and explosion**

The product is not combustible.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Ventilate store-rooms thoroughly.  
Keep only in original container.

**Advice on storage compatibility**

Do not store together with food.  
Store at cool and aired place and at distance to acids and alkalies.

**Further information on storage conditions**

Store at cool and aired place.

**Information on storage stability**

Storage time: 24 months.

**7.3. Specific end use(s)**

No information available.

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**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)**

| CAS No    | Name             | Code    | [mg/m <sup>3</sup> ] | [ppm] | Remark |
|-----------|------------------|---------|----------------------|-------|--------|
| 7440-22-4 | silver, metallic | 8 hours | 0,1                  |       |        |

**8.2. Exposure controls****Respiratory protection**

In case of insufficient ventilation or long-term effect use breathing apparatus.  
Breathing apparatus

**Hand protection**

PVC gloves  
Neoprene gloves

**Eye protection**

tightly fitting goggles

**Other protection measures**

protective clothing

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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

solid

**Colour**

silver-grey

**Odour**

odourless

**Odour threshold**

not determined

**Important health, safety and environmental information**

|  | Value                     | Temperature | at | Method | Remark    |
|--|---------------------------|-------------|----|--------|-----------|
| <b>pH value</b>  | not determined            |             |    |        |           |
| <b>Boiling temperature / boiling range</b>               | not determined            |             |    |        |           |
| <b>melting range</b>                                     | 217 - 221 °C              |             |    |        |           |
| <b>Flash point</b>                                       | no                        |             |    |        |           |
| <b>Vapourisation rate</b>                                | not determined            |             |    |        |           |
| <b>Flammable (solid)</b>                                 | not determined            |             |    |        |           |
| <b>Flammability (gas)</b>                                | not determined            |             |    |        |           |
| <b>Ignition temperature</b>                              | no                        |             |    |        |           |
| <b>Self ignition temperature</b>                         | not determined            |             |    |        |           |
| <b>Lower explosion limit</b>                             | not determined            |             |    |        |           |
| <b>Upper explosion limit</b>                             | not determined            |             |    |        |           |
| <b>Vapour pressure</b>                                   | < 0,1 mbar                | 20 °C       |    |        |           |
| <b>Relative density</b>                                  | 7,4 g/cm <sup>3</sup>     | 20 °C       |    |        |           |
| <b>Vapour density</b>                                    | 6                         | 20 °C       |    |        |           |
| <b>Solubility in water</b>                               |                           |             |    |        | insoluble |
| <b>Solubility/other</b>                                  | not determined            |             |    |        |           |
| <b>Partition coefficient n-octanol/water (log P O/W)</b> | not determined            |             |    |        |           |
| <b>Decomposition temperature</b>                         | not determined            |             |    |        |           |
| <b>Viscosity</b>   | not determined            |             |    |        |           |
| <b>Oxidising properties</b>                              | No information available. |             |    |        |           |
| <b>Explosive properties</b>                              | no                        |             |    |        |           |

**9.2. Other information**  
No information available.

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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**  
No information available.

**10.2. Chemical stability**  
No information available.

**10.3. Possibility of hazardous reactions**  
No information available.

**10.4. Conditions to avoid**  
not determined

**10.5. Incompatible materials**  
**Substances to avoid**  
Reactions with acids and strong oxidising agents.

**10.6. Hazardous decomposition products**  
Carbon monoxide and carbon dioxide.  
Toxic metal compounds  
Irritant gases/vapours

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**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity/Irritation/Sensitization**

|                           | Value/Validation | Species | Method | Remark |
|---------------------------|------------------|---------|--------|--------|
| <b>Skin irritation</b>    | irritant         |         |        |        |
| <b>Eye irritation</b>     | irritant         |         |        |        |
| <b>Skin sensitization</b> | sensitizing      |         |        |        |

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**SECTION 12: Ecological information**

**12.1. Toxicity**  
No information available.

**12.2. Persistence and degradability**

|                                 | Elimination rate | Method of analysis | Method | Validation             |
|---------------------------------|------------------|--------------------|--------|------------------------|
| <b>Biological degradability</b> |                  |                    |        | not readily degradable |

**12.3. Bioaccumulative potential**  
Because of its consistency the product cannot be dispersed in the environment. Adverse ecological effects are therefore unlikely on the basis of current knowledge.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects****General regulation**

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

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**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Recommendations for the product**

Collect waste separated in suitable, labeled and lockable containers.

Remove in accordance with local official regulations.

**Recommendations for packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

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**SECTION 14: Transport information**

|   | <b>ADR/RID</b> | <b>IMDG</b> | <b>IATA-DGR</b> |
|---|----------------|-------------|-----------------|
| <b>14.1. UN number</b>                  | -              | -           | -               |
| <b>14.2. UN proper shipping name</b>    | -              | -           | -               |
| <b>14.3. Transport hazard class(es)</b> | -              | -           | -               |
| <b>14.4. Packing group</b>              | -              | -           | -               |
| <b>14.5. Environmental hazards</b>      | -              | -           | -               |

**14.6. Special precautions for user**

No information available.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No information available.

**Transport/further information**

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

No information available.



**15.2. Chemical Safety Assessment**

No information available.

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**SECTION 16: Other information**

**Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

**Further information**

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

H317 May cause an allergic skin reaction.