

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Name of product

SR37 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,, Tokyo 164-8666, Japan

Phone : +81 333792277

E-Mail : tokyo2@almit.co.jp

Internet : www.almit.com

1.4. Emergency telephone number

No information available.

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.

Information pertaining to special dangers for human and environment

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

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

not applicable

3.2. Mixtures

Hazardous ingredients

Hazardous ingredients (continued)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
8050-09-7	232-475-7	colophony	1,3 - 5	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	

REACH

CAS No	Name	REACH registration number
8050-09-7	colophony	01-2119480418-32-****
7440-22-4	silver, metallic	01-2119555669-21-****
7440-31-5	Tin	01-2119486474-28-****
7440-50-8	Copper	01-2119480154-42-****

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.

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 (CO₂)

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.

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.

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.

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.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2004/37/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m ³]	[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

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

9.2. Other information

No information available.

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

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

	Value/Validation	Species	Method	Remark
Skin irritation	irritant			
Eye irritation	irritant			
Skin sensitization	sensitizing			

SECTION 12: Ecological information**12.1. Toxicity**

No information available.

12.2. Persistence and degradability

Elimination rate	Method of analysis	Method	Validation
Biological degradability			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.

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.

SECTION 14: Transport information

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

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.

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.

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.