

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Name of product NHR1 LFM-48 S

Name of product

Identified uses

Sector of uses [SU]

Soldering Material

Effect of the substance / the mixture

Distributor

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Advice

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E-mail (competent person)

Manufacturer

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Phone

2. Hazards identification

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Classification according to 67/548/EEC or 1999/45/EC

R42/43

R-phrases

42/43

May cause sensitization by inhalation and skin contact.

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

GHS07



GHS08

Signal word

Danger

Hazard statements for health hazardsH317 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 soap and water.
P304 + P341 IF INHALED: If breathing is difficult, remove 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.

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 symptomsProlonged/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.

3. Composition/information on ingredients**REACH registration number****Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
8050-09-7	232-475-7	colophony	2,3 - 3,7	R43
7440-22-4	231-131-3	silver, metallic	2,8 - 3,2	

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
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7440-22-4	231-131-3	silver, metallic	2,8 - 3,2	

4. 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.

5. Firefighting measures**Suitable extinguishing media**

Fire-extinguishing activities according to surrounding.
Foam
Dry fire-extinguishing substance
Dry powder
Carbon dioxide

sand

Extinguishing media which must not be used for safety reasons

water

Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

Carbon monoxide (CO)

Carbon dioxide (CO₂)

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.

6. Accidental release measures

Personal precautions

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.

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.

Methods for 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.

7. Handling and storage

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.

Advice on protection against fire and explosion

The product is not combustible.

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.

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

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
7440-22-4	silver, metallic	8 hours	0,1		

Respiratory protectionIn case of insufficient ventilation or long-term effect use breathing apparatus.
Breathing apparatus**Hand protection**PVC gloves
Neoprene gloves**Eye protection**

tightly fitting goggles

Skin protection

protective clothing

General protective measuresAvoid 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.**9. Physical and chemical properties****Form**
solid**Colour**
silver-grey**Odour**
odourless**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
melting range	217 - 221 °C				
Flash point	no				
Ignition temperature	no				
Vapour pressure	< 0,1 mbar	20 °C			
Density	7,4 g/cm3	20 °C			
Rel. vapour density	6	20 °C			
Solubility in water					insoluble

	Value	Temperature	at	Method	Remark
Viscosity	not determined				
Explosive properties	no				
Additional information					

10. Stability and reactivity

Conditions to avoid

not determined

Materials to avoid

Reactions with acids and strong oxidising agents.

Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Toxic metal compounds

Irritant gases/vapours

11. Toxicological information

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
Irritability skin	irritant			
Irritability eye	irritant			
Skin sensitization	sensitizing			

12. Ecological information

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Data on elimination (persistence and degradability)

Data on elimination (persistence and degradability)

	Elimination rate	Method of analysis	Method	Validation
Biological degradability				not readily degradable

Degradability according to WRMG

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

Mobility and bioaccumulative potential

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General regulation

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

13. Disposal considerations

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.

14. Transport information

Transport/further information

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

15. Regulatory information

Chemical Safety Assessment

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.

Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 43 May cause sensitisation by skin contact.

H317 May cause an allergic skin reaction.