

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

**Product identifier**

**Name of product** KR19 SH RMA LFM-48

**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 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 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 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.

**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]
8050-09-7	232-475-7	colophony	2,3 - 3,7	Skin Sens. 1, H317
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 (CO<sub>2</sub>)

**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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## 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.

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## 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/m <sup>3</sup> ]	[ppm]	Remark
7440-22-4	silver, metallic	8 hours	0,1		

**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

**Skin protection**

protective clothing

**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.

**9. Physical and chemical properties****Form**

solid

**Colour**

silver-grey

**Odour**

odourless

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>melting range</b>	217 - 221 °C				
<b>Flash point</b>	no				
<b>Ignition temperature</b>	no				
<b>Vapour pressure</b>	< 0,1 mbar	20 °C			
<b>Density</b>	7,4 g/cm <sup>3</sup>	20 °C			
<b>Rel. vapour density</b>	6	20 °C			
<b>Solubility in water</b>					insoluble

	Value	Temperature	at	Method	Remark
<b>Viscosity</b>	not determined				
<b>Explosive properties</b>	no				
<b>Additional information</b>					

## 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
<b>Irritability skin</b>	irritant			
<b>Irritability eye</b>	irritant			
<b>Skin sensitization</b>	sensitizing			

## 12. Ecological information

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**Data on elimination (persistence and degradability)**

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	Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b>				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.

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**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.

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**14. Transport information**

**Transport/further information**

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

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**15. Regulatory information**

**Chemical Safety Assessment**

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**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.

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