



SOLDER GEL MOB 39 - GEL MOB 39

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : SOLDER GEL MOB 39
Product code : GEL MOB 39.

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

Soft soldering

Use descriptor system (REACH) :

SU 3 Industrial uses : uses of substances as such or in preparations at industrial sites
PC 38 Welding and soldering products (with flux coatings or flux cores), flux products

1.3. Details of the supplier of the safety data sheet

Registered company name : MBO.
Address : Rue de la Fonderie.21800.Chevigny-Saint-Sauveur.FRANCE.
Telephone : 00 33 3 80 46 12 58. Fax : 00 33 3 80 46 66 59.
admin@mbosolder.com
www.mbosolder.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.
This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Additional labeling :
EUH210 Safety data sheet available on request.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

It is recommended to wear safety glasses, protective gloves, to wash hands after use and to work with a good ventilation of area, and suitable fumes extraction system locally installed.

Its use during soldering may produce or release fumes which can be sensitizing for the respiratory system to asthmatics.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

| Identification | (EC) 1272/2008 | Note | % |
|--|----------------|------|-----------------|
| CAS: 65997-06-0 EC: 266-041-3 REACH: 01-2119487113-41-0000 MODIFIED ROSIN | | | 60.00 - 90.00 % |

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| | | | |
|--|------------------------------------|--|-----------|
| CAS: 123-99-9 EC: 204-669-1 REACH: 01-2119557891-28-XXXX AZELAIC ACID | GHS07 Wng Eye Irrit. 2, H319 | | < 10.00 % |
|--|------------------------------------|--|-----------|

(Full text of H-phrases: see section 16)

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures**In the event of exposure by inhalation :**

Take affected persons into fresh air. If irritation persists, get medical attention.

In the event of splashes or contact with eyes :

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.
If it appears pain, redness or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Immediately wash with water and soap and rinse thoroughly.
If skin irritation persists, get medical attention.
If burns should occur from molten metal, treat for burn and get medical assistance if necessary.
Beware of products that may remain between the skin and clothes , the watch , the shoes...

In the event of swallowing :

Seek medical attention, showing the label.

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

No data available.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media**Suitable methods of extinction**

In the event of a fire, use :

- dry chemical agents
- sprayed water or water mist
- carbon dioxide (CO₂)

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

5.3. Advice for firefighters

Wear full body protective clothing and appropriate self-contained breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

Keep away from heat and sun. Keep away from flames and sources of ignition.



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For non first aid worker

Keep persons without protective equipment away from danger area.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

After cooling, contain and collect spillage with absorbent materials.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

The workplace must be ventilated and fumes must be captured at the emission source.

Wear protective shoes and gloves.

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep container closed when the product is not used.

Store in the original packaging, sealed, in the refrigerator (between 5 and 10°C), protected from the weather and away from sources of heat, for a period of 12 months.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No data available.

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

MODIFIED ROSIN (CAS: 65997-06-0)

Final use:

Exposure method:

Potential health effects:

DNEL :

Exposure method:

Potential health effects:

DNEL :

Workers.

Dermal contact.

Long term systemic effects.

17 mg/kg body weight/day

Inhalation.

Long term systemic effects.

117 mg of substance/m³

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Final use:

Exposure method:
Potential health effects:
DNEL :

Man exposed via the environment.

Ingestion.
Long term systemic effects.
10 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Long term systemic effects.
10 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
35 mg of substance/m³

Predicted no effect concentration (PNEC):

MODIFIED ROSIN (CAS: 65997-06-0)

Environmental compartment:
PNEC : Soil.
0.00045 mg/kg

Environmental compartment:
PNEC : Fresh water.
0.0016 mg/l

Environmental compartment:
PNEC : Sea water.
0.00016 mg/l

Environmental compartment:
PNEC : Intermittent waste water.
0.016 mg/l

Environmental compartment:
PNEC : Fresh water sediment.
0.007 mg/kg

Environmental compartment:
PNEC : Marine sediment.
0.0007 mg/kg

Environmental compartment:
PNEC : Waste water treatment plant.
1000 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Recommended properties :

- Impervious gloves in accordance with standard EN374



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- Body protection

Suitable type of protective clothing :

- protective work clothing
- protective shoes

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Independent breathing apparatus for respiratory protection :

It is recommended to set up a fumes exhaust system closer to their emission. In case of insufficient ventilation, wear suitable respiratory equipment. In case of formation of vapors, wear suitable respiratory equipment with filter.

- Thermal risks

The product could cause burns during soldering.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state : Paste.

Important health, safety and environmental information

| | |
|---|----------------|
| pH : | Not relevant. |
| Boiling point/boiling range : | Not specified. |
| Flash point interval : | Not relevant. |
| Vapour pressure (50°C) : | Not relevant. |
| Density : | > 1 |
| Water solubility : | Insoluble. |
| Melting point/melting range : | Not specified. |
| Self-ignition temperature : | Not specified. |
| Decomposition point/decomposition range : | Not specified. |

9.2. Other information

Flash point > 100°C

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

The product is stable under normal conditions of use and storage, but reacts with strong oxidisers.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

Reaction with strong oxidizers.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No hazardous decomposition under normal conditions of use.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No data available.



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11.1.1. Substances

Acute toxicity :

MODIFIED ROSIN (CAS: 65997-06-0)

Oral route : LD50 > 5000 mg/kg
Species : Rat

Dermal route : 2,000 < LD50 <= 5000 mg/kg
Species : Rat

Serious damage to eyes/eye irritation :

AZELAIC ACID (CAS: 123-99-9)

Causes serious eye irritation.

Corneal haze : 1 <= Average score < 2 and effects totally reversible within 21 days of observation

Conjunctival redness : 2 <= Average score < 2.5 and effects totally reversible within 21 days of observation

Germ cell mutagenicity :

MODIFIED ROSIN (CAS: 65997-06-0)

Mutagenesis (in vitro) : Negative.
Species : Bacteria

With or without metabolic activation.

Specific target organ systemic toxicity - repeated exposure :

MODIFIED ROSIN (CAS: 65997-06-0)

Species : Rat
Duration of exposure : 90 days

11.1.2. Mixture

Skin corrosion/skin irritation :

The product may cause sensitization of the skin with prolonged contact.

Serious damage to eyes/eye irritation :

May cause eye irritation due to the fumes during soldering.

Other information

The product massive ingestion can lead to digestive disorders, réneaux, nervous and blood.

The product releases smoke during soldering from the heated rosin, which irritate the respiratory system and may cause an asthmatic type reaction.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

Do not allow product to reach ground water, water source or sewage system.

12.1.1. Substances

MODIFIED ROSIN (CAS: 65997-06-0)

Crustacean toxicity : EC50 = 726 mg/l
Species : Daphnia sp.
Duration of exposure : 48 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

AZELAIC ACID (CAS: 123-99-9)



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Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

MODIFIED ROSIN (CAS: 65997-06-0)
Biodegradability : Rapidly degradable.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

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

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SECTION 15 : REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/1480 (ATP 13)

- Container information:

No data available.



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- Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

We cannot anticipate any and all conditions and situations under which the information and our products or the combination of both with others will be used. We do not assume any liability in the safety and suitability of our products alone or in combination with others. Users must make their own tests to determine the safety and suitability of each product used alone or with other products for their own use.

Except any previous written agreement, our products are sold without guarantee and customers must assume all liability for any loss or damage suffered by themselves or by third parties, either from handling or use of our products alone or with others. In case of any difference or variation seen during the use of the products we request that you contact our technical department.

Wording of the phrases mentioned in section 3 :

H319 Causes serious eye irritation.

Abbreviations :

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.