

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

1.1 Product identifier

Trade name: MS Marker

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

- Uses advised against: -
- Application of the substance / the preparation: Marking of animals

1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:
Schippers Europe B.V.
Rond Deel 12
5531 AH Bladel, The Netherlands
Tél.: 0031 (0) 497-382017
MSDS@schippers.eu

2. Hazards identification

2.1 Classification of the substance or mixture

- Classification in accordance with Directive 67/548/EEC or Directive 1999/45/EC
Not applicable

- Information concerning particular hazards for human and environment:

No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet. According to current European laws and regulations the product is not dangerous or toxic material (based on the available data).

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- Classification system:

The classification was made according to the latest editions of the EC-lists and expanded using company data and specialized literature.

2.2 Label elements

- Labelling according to EU guidelines:

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

2.3 Other hazards

The material is intensely coloured

- Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

3. Composition/information on ingredients

3.2 Chemical characterization: Mixtures

- Description: Hydrocarbon waxes combined with pigments and colouring
- Dangerous components: Void

4. First aid measures

4.1 Description of first aid measures

- **General information:** No special measures required.
- **After inhalation:** Void
- **After skin contact:** Wash with water and soap.
- **After eye contact:** This product is an inert solid substance. If particles get into the eyes, remove as customary for foreign bodies.
- **After swallowing:** Unintentional swallowing is not very likely in the industrial area. If product is ingested, induce vomiting and seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

5. Fire-fighting measures

5.1 Extinguishing media

- **Suitable extinguishing agents** Water, fire-extinguishing powder, carbon dioxide (CO₂), use fire fighting measures that suit the environment
- **For safety reasons unsuitable extinguishing agents:** No data available

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO), carbon dioxide (CO₂), hydrocarbons, after extinguishing vapours may re-inflate.

5.3 Advice for firefighters

- **Protective equipment:** Wear self-contained respiratory protective device
Wear a fully protective suit
- **Additional information:** Molten product should not get into the sewage system
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not required.

6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Make sure to recycle or dispose of in suitable receptacles.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and storage

7.1 Precautions for safe handling

No special precautions are necessary if used correctly.

- **Information about protection against explosions and fires:** Observe the general rules of industrial fire protection.

7.2 Conditions for safe storage, including any incompatibilities

- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store at ambient temperature
Store in well-ventilated area
- **Information about storage in one common storage facility:**
Store away from foodstuffs
- **Further information about storage conditions:**
Protect from heat and direct sunlight
- **Storage class:**
11 Combustible solids

7.3 Specific end use(s)

No further relevant information available.

8. Exposure controls/Personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

8.1 Control parameters

- **Components with limit values that require monitoring at the workplace:**

8002-74-2 paraffin waxes and hydrocarbon waxes

WEL (Great Britain) Short-term value: 6 mg/m³
Long-term value: 2 mg/m³

- **Additional information:** The lists that were valid during the creation were used as basis.

8.2 Exposure controls

- **Personal protective equipment**
- **General protective and hygienic measures:** The usual precautionary measures should be adhered to when handling chemicals. Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:** At longer contact: protective gloves
The glove material has to be impermeable and resistant to the product/substance/preparation.
To avoid skin problems reduce the wearing of gloves to the requires minimum.
After use of gloves apply skin-cleaning agents and skin cosmetics.
- **Material of gloves:** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material:** The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.
- **Body protection:** Not required.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **General information:**
- **Appearance:**
 - **Form:** Solid
 - **Colour:** Different according to colouring

· Odour:	Mineral-oil-like
· Odour threshold:	Not determined
· Change in condition:	
· Melting point/melting range:	80°C
· Boiling point/Boiling range:	Not determined
· Flash point:	> 180°C
· Self ignition temperature:	Product is not self-igniting
· Danger of explosion:	Product does not present an explosion hazard
· Explosion limits:	
· Lower:	Not applicable
· Upper:	Not applicable
· Density at 20°C:	~0.9 g/cm ³
· Solubility in/miscibility with water:	Insoluble
· Viscosity dynamic:	Not applicable

9.2 Other information

No further relevant information available.

10. Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

- Thermal decomposition/conditions to be avoided:
- No decomposition if used and stored according to specifications
To avoid thermal decomposition do not overheat

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

No hazardous decomposition products if instructions for storage and handling are followed.

11. Toxicological information

11.1 Information on toxicological effects

- Acute toxicity:
- LD/LC50 values that are relevant for classification: No toxicity data are available for the product itself.
- Primary irritant effect:
- on the skin: No irritating effect
- on the eye: No irritating effect
- on the respiratory tract: -
- Sensitization: No sensitizing effects known
- Subacute to chronic toxicity:
- STOT-single exposure: No classification
- STOT-repeated exposure: No classification
- Aspiration hazard: No classification
- Additional toxicological information: The product is not subject to classification according to the

calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12. Ecological information

12.1 Toxicity

· Aquatic toxicity: Presently there are no ecotoxicological values available

12.2 Persistence and degradability

No further relevant information available

12.3 Bioaccumulative potential

No further relevant information available

12.4 Mobility in soil

No further relevant information available

· Ecotoxicological effects:

Remark: If used as intended, product does not reach sewage water.

· Additional ecological information:

General notes:

Water hazard class 1 (German Regulation)(Self-assessment): slightly hazardous to water.

According to appendix 4 of VwVwS dated 27.7.2005 (German Regulation)

Danger to drinking water is possible if large quantities leak into the ground or into water course.

12.5 Results of PBT and vPvB assessment

· PBT: Not applicable

· vPvB: Not applicable

12.6 Other adverse effects

No further relevant information available

13. Disposal considerations

13.1 Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal according to instructions of local authorities

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations.

14. Transport information

14.1 UN-Number

· ADR, ADN, IMDG, IATA Void

14.2 UN proper shipping name

· ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

· ADR, ADN, IMDG, IATA

· Class Void

14.4 Packing group

· ADR, IMDG, IATA Void

14.5 Environmental hazards

· Marine pollutant: No

14.6 Special precautions for user

Not applicable

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

Not applicable

15. Regulatory information

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

· National regulations

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Reasons for amendments:** General revision

· **Replaces version dated:** 03.02.2009

Abbreviations and acronyms: ·

· ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of dangerous Goods by Road)
· RID	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
· IMDG	International Maritime Code for Dangerous Goods
· IATA	International Air Transport Association
· GHS	Globally Harmonized System of Classification and Labelling of Chemicals
· CAS	Chemical Abstracts Service (division of the American Chemical Society)
· LC50	Lethal concentration, 50 percent
· LD50	Lethal dose, 50 percent