Safety Data Sheet

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

1.1. Product identifier

Product name **WONDER GEL**

WONDER GEL, WONDER GEL INVISIBLE, WONDER FLUID

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

Intended use **Insulation of electrical or electronic equipment**

1.3. Details of the supplier of the safety data sheet

Name **RAYTECH S.R.L.**
Full address **Raytech Srl**
District and Country **20019 Settimo Milanese (MILANO)**
ITALIA
Tel. +39 (02) 33500147
Fax +39 (02) 33500287

e-mail address of the competent person responsible for the Safety Data Sheet **info@raytech.it**

1.4. Emergency telephone number

For urgent inquiries refer to **NHS Direct (UK): +44 0845 46 47**

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: --

2.2. Label elements

Hazard pictograms: --

Signal words: --

Hazard statements: --

Precautionary statements: --

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Blend of polyorganosiloxanes. Already cross-linked elastomer. The product is supplied already polymerised. No dangerous components.

SECTION 4. First aid measures

4.1. Description of first aid measures

Not specifically necessary. Observance of good industrial hygiene is recommended.

Under normal conditions of intended use, this material is not an inhalation hazard.
In case of inhalation: Not relevant.
Skin Contact: Remove contaminated clothing and shoes. Wash skin with soap and water. Contact a doctor if symptoms occur. Wash contaminated clothing before wearing it again.
Eye contact: In case of contact with eyes, rinse thoroughly with water for at least 15 minutes. If you experience any symptoms after washing the area, seek medical attention promptly.
Ingestion: Do not induce vomiting. Rinse your mouth thoroughly with water. Contact a doctor if symptoms occur.
Personal protections for first aiders:
First responders should be concerned about their own safety and wear the recommended personal protective equipment (chemical resistant gloves, splash guards). For information on emergency procedures and protective equipment refer to sections 5 and 8.

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

No specific symptoms are reported. For more information see section 11 of the SDS.

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

No specific recommendations. Show this safety data sheet to the attending physician.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

The product burns under fire conditions. Thermal decomposition or combustion may release carbon oxides, silicon dioxide and other toxic gases or vapors.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

Special Fire Fighting Procedures:
Use standard firefighting procedures and consider the hazards of other materials involved. Only remove undamaged containers from the fire area if it is safe to do so. Evacuate area to a safe location and contact emergency services. Water spray should be used to cool containers. Collect contaminated extinguishing water separately. They must not be discharged into sewers or surface waters.
Special protective equipment for firefighters:
In case of fire, wear self-contained breathing apparatus and full protective clothing.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

Wear personal protective equipment. For personal protective equipment, see Section 8 of the SDS.

SECTION 6. Accidental release measures ... / >>

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

No data available.

6.3. Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

Containers for collecting spilled material must be specially labeled with the correct designation of the contents and the danger symbol. The container must be kept tightly closed. Absorb with sand or other inert absorbent. To clean the floor and objects contaminated by this product, use a suitable solvent (cf. : § 9). Flush area with plenty of water. Incinerate in appropriate combustion chamber.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

Warning: Contaminated surfaces may be slippery. For disposal information, see section 13 of the SDS.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

Precautions:
Handle in accordance with good industrial hygiene and safety practice. No special precautions other than standard hygiene rules are required. For additional individual protection measures to be taken when handling this product, see Section 8 of the SDS. Avoid splashes, waste and minimize release into the environment. In case of product spills, pay attention to slippery surfaces and floors.
Hygiene measures:
Always observe standard personal hygiene measures, such as washing hands after handling the material and before eating, drinking and/or smoking. Regularly wash work clothes and protective equipment to remove contaminants. Contaminated work clothing must not be taken out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

Store in accordance with local/regional/national regulations. Do not discharge into sewers, waterways or onto the ground. Store in a dry place. Store in properly labeled containers. Store above the freezing point of the chemical. Protect from physical damage and/or friction. Store away from incompatible materials. For more information see § 10 :" Stability and reactivity ".
Packaging frequently used at our sites:
Polyethylene. Plastic coated steel barrel.

7.3. Specific end use(s)

No specific recommendations. Consult the product data sheet for further information.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Limit Values for Occupational Exposure:
No exposure limit has been defined for any component.
Tracking Methods:
Ensure monitoring of worker exposure in compliance with national and European regulations in force, in particular Directives 98/24/EC and 2004/37/EC.

8.2. Exposure controls

Comply with the safety measures usually applied when handling chemical substances.
HAND PROTECTION
None required.
SKIN PROTECTION
None required.
EYE PROTECTION
None required.

SECTION 8. Exposure controls/personal protection ... / >>

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Appropriate Engineering Controls:
Not applicable.
Individual protection measures, such as personal protective equipment:
Avoid inhalation of vapours/aerosols/dusts and contact with skin and eyes. Personal protective equipment must be chosen according to the applicable standards, must be suitable for the conditions of use of the product and must be chosen in agreement with the supplier of the personal protective equipment.
Eye/face protection:
Safety glasses with side shields.
Hand Protection:
this recommendation is only valid for the product named in the safety data sheet provided by us and for the purpose indicated by us. If this product is mixed with other substances, a supplier of CE approved protective gloves should be contacted to determine which gloves are appropriate.
Prolonged and repeated contact: Material: Nitrile.
Glove thickness: 1.25 mm. Guidelines: EN374-3
Brief contact:
Material: Nitrile / Neoprene Glove thickness: 0.198mm Guidelines: EN374-3
Skin and body protection:
Wear suitable protective clothing to prevent any possibility of skin contact. Insulate clothing
contaminated and wash them before re-use. In case of splashes: Wear an apron or special protective clothing.
Respiratory protection:
No particular precautions.
Environmental controls:
See sections 7 and 13 of the safety data sheet.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties		Value		Information
Appearance		viscous liquid		
Colour		colourless		
Odour		odourless		
Melting point / freezing point		not available		
Initial boiling point		not available		
Flammability		not available		
Lower explosive limit		not available		
Upper explosive limit		not available		
Flash point	>	200	°C	
Auto-ignition temperature	>	400	°C	
Decomposition temperature	>	200	°C	
pH		not available		Reason for missing data:substance/mixture is non-soluble (in water)
Kinematic viscosity		150 mm2/s approssimativo		Temperature: 20 °C
Solubility		insoluble		
Partition coefficient: n-octanol/water		not available		
Vapour pressure		not available		
Density and/or relative density		1	kg/dm3	Temperature: 20 °C
Relative vapour density		not available		
Particle characteristics		not applicable		

Shape: Solid
Form: Gel
Color: Green/Translucent
Odour: Odourless

SECTION 9. Physical and chemical properties ... / >>

Flash point: Not applicable
Self-ignition temperature: > 400 °C
Decomposition temperature: > 200 °C
Kinematic viscosity: Not applicable

9.2. Other information

Dynamic viscosity: Not applicable
Oxidizing properties: According to data on components
It is not considered as an oxidant. (assessment based on the structure-activity relationship)

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

No other information provided.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

The material is stable under normal conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

No other information provided.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

No other information provided.

10.5. Incompatible materials

No other information provided.

10.6. Hazardous decomposition products

Thermal decomposition or burning may liberate carbon oxides and other toxic gases and vapors. Amorphous silica.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

According to currently available data, this product has not yet produced any damage to health. In any case it must be treated according to good industrial practices.

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

SECTION 11. Toxicological information ... / >>

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Information not available

12.2. Persistence and degradability

Information not available

SECTION 12. Ecological information ... / >>

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

The user's attention is drawn to the possible existence of local legislation relating to disposal.
Disposal Methods: Dispose of waste in an appropriate treatment and disposal center in accordance with applicable laws and regulations and the characteristics of the product at the time of disposal. Incinerate.
Contaminated Containers: Contaminated packaging should be emptied as much as possible. Dispose of waste in an appropriate treatment and disposal center in accordance with applicable laws and regulations and the characteristics of the product at the time of disposal. After cleaning, recycle or dispose of at an authorized center.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
Product
Point 40
Contained substance
Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

Healthcare controls
Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

As this product is not classified as dangerous, a Chemical Safety Assessment is not required. For information on safe use, see section 8 of this safety data sheet.

SECTION 16. Other information

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train

SECTION 16. Other information ... / >>

- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.
Limitation of Liability:
The information provided is based on the data available for the material in question, the components of the material and similar materials.
This information is believed to be correct. The information is given in good faith.
This information is to be used to make an independent determination of methods for protecting workers and the environment.

Changes to previous review:
The following sections were modified:
11.