

Kit components

SDS-04-43 v1

Effective date: 26.01.2024

| KIT CATALOGUE NUMBER | PRODUCT NAME | KIT SIZE, RXN |
|----------------------|--------------------------------|----------------|
| 04-43-00\$15 | HOT FIREPol® GC Master Mix Kit | 25 rxn x 20 μl |
| COMPONENT CAT. NO. | COMPONENT NAME | QUANTITY, PCS |
| 04-33-00\$15 | HOT FIREPol® GC Master Mix | 1 |
| 05-11-00001 | 25 mM MgCl ₂ | 1 |
| DMSO_0.1 | DMSO 100% | 1 |

| KIT CATALOGUE NUMBER | PRODUCT NAME | KIT SIZE, RXN |
|----------------------|--------------------------------|-----------------|
| 04-43-00115 | HOT FIREPol® GC Master Mix Kit | 250 rxn x 20 μl |
| COMPONENT CAT. NO. | COMPONENT NAME | QUANTITY, PCS |
| 04-33-00115 | HOT FIREPol® GC Master Mix | 1 |
| 05-11-00005 | 25 mM MgCl ₂ | 1 |
| DMSO_0.5 | DMSO 100% | 1 |

| KIT CATALOGUE NUMBER | PRODUCT NAME | KIT SIZE, RXN |
|----------------------|--------------------------------|------------------|
| 04-43-00115-5 | HOT FIREPol® GC Master Mix Kit | 1250 rxn x 20 μl |
| COMPONENT CAT. NO. | COMPONENT NAME | QUANTITY, PCS |
| 04-33-00115 | HOT FIREPol® GC Master Mix | 5 |
| 05-11-00005 | 25 mM MgCl₂ | 5 |
| DMSO_0.5 | DMSO 100% | 5 |

| KIT CATALOGUE NUMBER | PRODUCT NAME | KIT SIZE, RXN |
|----------------------|--------------------------------|------------------|
| 04-43-02015 | HOT FIREPol® GC Master Mix Kit | 5000 rxn x 20 μl |
| COMPONENT CAT. NO. | COMPONENT NAME | QUANTITY, PCS |
| 04-33-02015 | HOT FIREPol® GC Master Mix | 1 |
| 05-11-00005 | 25 mM MgCl ₂ | 20 |
| DMSO_10 | DMSO 100% | 1 |

Safety Data Sheets for individual kit components are provided below.





Safety Data Sheet

In accordance with Regulation (EU) 2020/878

Revision date: 12.06.2023 version 3

| 1. IDENTIFICATION OF THE SUBS | STANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING |
|--|---|
| Product name | HOT FIREPol® GC Master Mix, 5x |
| Catalog number | 04-33-00S15, 04-33-00115, 04-33-00115-5, 04-33-02015 |
| REACH registration number | Not applicable |
| ECHA registration number (EC-No) | Not applicable |
| Unique formula identifire (UFI) code | Not applicable |
| Recommended use of the chemical and uses advised against | This product is for Research Use Only. Not for consumer use. |
| Manufacturer/Supplier | Solis BioDyne OÜ Teaduspargi 9, 50411 Tartu, Estonia <u>info@solisbiodyne.com</u> Tel. +372 740 9960, Fax. +372 740 2079 |
| Information in case of emergency | Solis BioDyne Tel. +372 740 9960 EU Emergency Service Tel 112 Estonian Poison Center +372 794 3794 |

| 2. HAZARDS IDENTIFICATION | |
|---|---|
| Classificaton of the substance or mixture | Classification according to Regulation (EC) No 1272/2008 |
| Physical hazards | Not hazardous |
| Health hazards | Not hazardous |
| Environmental hazards | Not hazardous |
| Explosion hazards | Not hazardous |
| Additional hazards | This mixture does not contain any substances that are assessed to be a PBT or a vPvB The mixture does not contain any nanoforms |
| Label elements | Labelling according to Regulation (EC) No 1272/2008 [CLP] |
| Pictograms | None |
| Signal word | None |
| Hazard statements | Not applicable |
| EU Specific Hazard Statements | Not applicable |
| Precautionary Statements | |
| Prevention | Not applicable |
| Response | Not applicable |
| Storage | Routine storage at -28°C to -18°C until the end of shelf-life (Expiry Date marking on the package). Keep/store only in original/labeled container. Transport conditions in section 14 |
| Disposal | Prevent product from entering drains. Do not allow material to contaminate ground water system |
| Other Hazards | No endocrine disruptors information is available |

| 3. COMPOSITION/ INFORMATION ON INGREDIENTS | |
|--|--|
| 3.1 Substances Hazardous/Non-hazardous Components: | |
| 3.2 Mixtures Hazardous/Non-hazardous Components: | |

| | | | | The second secon | cation acco n (EC) No 1 (CLP) | _ | |
|---|-----------|-----------|-------------------------|--|--|--|---------------------------------|
| Component | CAS-No. | EC-No. | REACH reg No | Conc % (w/w) | Pictogram, signal word code (s) | Hazard class and category code (s) | Hazard statement code (s) |
| H₂O | 7732-18-5 | 231-791-2 | - | <93 | - | - | - |
| Glycerol | 56-81-5 | 200-289-5 | 01211947198718- XXXX | <6 | - | - | - |
| MgCl ₂ | 7791-18-6 | 232-094-6 | - | <1 | - | - | - |
| HOT FIREPol [®] DNA Polymerase | N/A | N/A | - | <0.1 | - | - | - |
| dGTP | 2564-35-4 | 219-887-2 | - | <0.1 | - | - | - |
| dCTP | 2056-98-6 | 218-153-9 | - | <0.1 | - | _ | - |
| dATP | 1927-31-7 | 217-662-3 | - | <0.1 | - | - | - |
| dTTP | 365-08-2 | 206-669-7 | - | <0.1 | - | - | - |
| BSA | 9048-46-8 | 232-936-2 | - | <0.1 | - | - | - |

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

There are no additional ingredients (incl nanoforms) present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment.

| 4. FIRST-AID MEASURES | |
|--|---|
| Skin contact | Wash off with plenty of water. Immediate medical attention is not required. |
| Eye contact | Rinse opened eye immediately with plenty of water. Remove contact lenses if present. If irritation persists, get medical attention. |
| Inhalation | Move to fresh air. Consult a physician if necessary. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary. |
| Most important symptoms and effects, both acute and delayed | No information available |
| Indication of any immediate medical attention and special treatment needed | None |
| Notes to physician | Treat symptomatically |

| 5. FIRE-FIGHTING MEASURES | |
|--|---|
| Suitable extinguishing media | Dry chemical, CO ₂ , water spary or alcohol resistant foam. |
| Unsuitable extinguishing media | No information available |
| Fire/Explosion hazards | Not applicable |
| Protective equipment and precautions for fire-fighters | Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes |

| 6. ACCIDENTAL RELEASE MEASURES | | |
|--------------------------------|---|--|
| Personal precautions | Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. | |
| Personal protective equipment | Use personal protection recommended in Section 8. | |
| Environmental precautions | Do not allow to enter surface/ sewers or ground water. Prevent further leakage or spillage if safe to do so. See section 12 for additional information. | |

| Methods and material for containment and cleaning up Soak up with inert absorbent material | |
|---|--|
|---|--|

| 7. HANDLING AND STORAGE | |
|--|--|
| Precautions for safe handling | Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment |
| Conditions for safe storage, including any incompatibilities | Store at -20°C. Keep/store only in original container. Transport conditions in section 14 |
| Specific uses | For Research Use Only |

| Exposure Limits | | | |
|---------------------------------|--|---|--|
| Chemical Name | Country | Limits | |
| | Belgium (TWA) | 10 mg/m³ | |
| | Czech Republic | 10 mg/m³ TWA 15 mg/m³ Ceiling | |
| | France OEL (TLV) | 10 mg/m³ | |
| | Germany OEL (TWA) | 200 mg/m³ exposure factor 2 | |
| | Poland | 10 mg/m³ TWA | |
| Glycerol 56-81-5 | Portugal | 10 mg/m³ TWA | |
| | Spain OEL (TWA) | 10 mg/m³ | |
| | Switzerland | 100 mg/m³ STEL 50 mg/m³ TWA | |
| | United Kingdom | 10 mg/m³ TWA (mist) | |
| | USA | 15 mg/m³ (total dust) 5 mg/m³ (respirable) | |
| Engineering measures | Showers. Eyewash stations. E | Showers. Eyewash stations. Ensure adequate ventilation. | |
| Personal protective equipment: | | | |
| Respiratory protection | Not required. Use in well venti | Not required. Use in well ventilated areas. | |
| Skin and body protection | Wear suitable protective clothi | Wear suitable protective clothing and gloves | |
| Eye and face protection | Wear safety glasses with side | Wear safety glasses with side shields (or goggles) | |
| Protection of hands | Check protective gloves prior to each use for their proper condition. Material of gloves: Nitrile rubber, NBP | | |
| Hygiene measures | Handle in accordance with goo | Handle in accordance with good industrial hygiene and safety practice | |
| Environmental exposure controls | Prevent product from entering drains. Do not allow material to contaminate ground water system | | |

| 9. PHYSICAL AND CHEMICAL PROPERTIES | | |
|-------------------------------------|---|--|
| Physical state | Liquid | |
| Colour | Colorless | |
| Odour | Not defined | |
| pH value | 7.0-9.0. Contact info@solisbiodyne.com for specific information | |
| Melting/freezing point | No data available | |
| Boiling point/ boiling range | No data available | |
| Flammability | No data available | |
| Lower and upper explosion limit | No data available | |
| Flash point | No data available | |
| Autoignition temperature | No data available | |
| Decomposition temperature | No data available | |
| Kinematic viscosity | No data available | |
| Solubility | No data available | |

| Partition coefficient n-octanol/water | No data available |
|--|--------------------------|
| Vapor pressure | No data available |
| Density and/or relative density | No data available |
| Relative vapor density | No data available |
| Decomposition temperature | No data available |
| Particle characteristics | No data available |
| Information with regard to physical hazard classes | Not hazardous |
| Other safety characteristics | No information available |

| 10. STABILITY AND REACTIVITY | | |
|------------------------------------|---|--|
| Reactivity | No data available | |
| Chemical stability | Stable under normal conditions | |
| Possibility of hazardous reactions | Hazardous reaction has not been reported | |
| Conditions to avoid | No information available | |
| Incompatible materials | Strong oxidizing agents, acids and alkali | |
| Hazardous decomposition products | No data available | |

| 11. TOXICOLOGICAL INFORMATION | TION | | |
|---------------------------------|--|-------------------|-----------------|
| Acute toxicicity | There is no evidence available indicating acute toxicity | | |
| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| Glycerol 56-81-5 | = 12600 mg/kg Oral | > 10 g/kg(Rabbit) | >2.75mg/L(Rat) |
| Skin corrosion/irritation | May cause skin irritation | | |
| Serious eye damage/irritation | May cause eye irritation | | |
| Sensitization: | | | |
| Respiratory | Material may be irritating to mucous membranes and upper respiratory tract | | |
| Skin | Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals | | |
| Germ cell mutagenicity | No data available | | |
| Carcinogenicity | No data available | | |
| Reproductive toxicicity | No data available | | |
| STOT-single exposure | No data available | | |
| STOT-repeated exposure | No data available | | |
| Aspiration hazard | No data available | | |
| Endocrine disrupting properties | No data available | | |
| Information on other hazards | No data available | | |

| 12. ECOLOGICAL INFORMATION | V |
|---------------------------------|--|
| Marine pollutant | No data available |
| Ecotoxicity | No data available. Prevent product from entering drains. Do not allow material to contaminate ground water system. |
| Mobility | No data available |
| Persistence and degradability | No data available |
| Bioaccumulation | No data available |
| Endocrine disrupting properties | No data available |
| Othe adverse effects | No data available |

| 13. DISPOSAL CONSIDERATIONS | |
|-----------------------------|---|
| Waste handling and disposal | The generation of waste should be avoided or minimized wherever possible. |

| | Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations. | |
|---|--|--|
| Information regarding the disposal of the packaging | Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique | |
| Physical/chemical properties that may affect waste treatment options shall be specified | No special | |
| Sewage disposal | Do not empty into drains. Do not dispose of waste into sewer | |
| Special precautions for any recommended waste treatment | Consider local regulations and safe disposal procedures | |

| 14. TRANSPORT INFORMATION | | |
|---|--|--|
| UN number: | | |
| UN proper shipping name | Not applicable | |
| Transport hazard class (es): | | |
| Packing group | Not applicable | |
| Environmental hazards | Not hazardous goods | |
| Special precautions for user | Handle in accordance with good industrial hygiene and safety practice | |
| Land transport ADR/RID (cross-borde | r): | |
| ADR/RID class | Not regulated | |
| Air transport ICAO-TI and IATA-DGR: | | |
| ICAO/IATA class | Not regulated | |
| Additional information | This substance is considered to be non-hazardous for transport | |
| Transport conditions | Transport at ambient temperature Routine storage after transport -28°C to -18°C | |
| Maritime transport in bulk according to IMO instruments | Not regulated | |

| 15. REGULATORY INFORMATION | | |
|--|---|--|
| | Safety, health and environmental regulations/legislation specific for the substance or mixture | None |
| | Substances of Very High Concern. EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances for Eventual Inclusion in Annex XIV | None |
| | Substance subject to authorisation per REACH Annex XIV | None |
| Safety health and environmetal | Restricted substances under EC 1907/2006, Annex XVII | None |
| Safety, health and environmetal regulations/legislation specific for the product | Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals) | None |
| | Regulation(EU)No2019/1021 (Stockholm Convention persistent organic pollutants) | None |
| | EU - Substances Depleting the Ozone layer (1005/2009) | None |
| | German Water hazard classes (Wassergefährdungsklassen) | Glycerol 56-81-5 (hazard class 1 - slightly hazardous to water) |
| Components of animal origin | Regulation (EC) No 1069/2009 of the European Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by-products Regulation) | Gelatin BSA |
| Chemical safety assessment | No Chemical safety assessment has been carried out | |

| 16. OTHER INFORMATIO | N |
|------------------------------|--|
| Prepared by | Solis BioDyne / Technology specialist |
| Reason for revision | Revised according (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 (REACH) |
| Revision number | 3 |
| Revision date | 12.06.2023 |
| SDS is valid 3 years from re | evision date. Contact info@solisbiodyne.com for latest revision. |
| Last changes | Added UFI, endocrine disruptors and nanforms information and formal changes in all sections except 4, 5, 6 and 10. |

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

IMPORTANT: The information in this SDS is provided in good faith based on our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties or merchantability or fitness for a particular purpose. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable governmental requirements. Since conditions of use of the product are not under the control of Solis BioDyne it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. Solis BioDyne will not be liable for any damages resulting from handling or contact with the product.

Abbreviations:

ADR/RID - Road Transport of Dangerous Material/International Carriage of Dangerous Goods by Rail.

AGW – Time-weighted Average Concentration

EC - European Commission

CLP - Classification, Labelling and Packaging

IATA-DGR - International Air Transport Association-Dangerous Goods Regulations

ICAO-TI – International Civil Aviation Organization-Technical Instructions

IMO - International Maritime Organization

LD - Lethal Dose

NBP - N-Butyl-2-pyrrolidone

OEL - Occupational Exposure Limits

PBT – Persistent Bioaccumulative Toxic

PEL – Permissible Exposure Limits

STEL - Short Term Exposure Limit

STOT - Specific target organ toxicity

TLV - Threshold Limit Value

TWA - Time-Weighted Average





Safety Data Sheet

In accordance with Regulation (EU) 2020/878

Revision date: 12.06.2023 version 3

| 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING | | | | |
|---|---|--|--|--|
| Product name | 25 mM MgCl₂ | | | |
| Catalog number | 05-11-00001, 05-11-00005, 05-11-00025, 05-11-00050, 05-11-00200 | | | |
| REACH registration number | 01-2119485597-19-XXXX | | | |
| CAS number | 7791-18-6 | | | |
| ECHA registration number (EC-No) | 232-094-6 | | | |
| Unique formula identifire (UFI) code | Not applicable | | | |
| Molecular Formula | MgCl ₂ · 6H ₂ O | | | |
| Recommended use of the chemical and uses advised against | Laboratory Chemicals. Not for consumer use. | | | |
| Manufacturer/Supplier | Solis BioDyne OÜ Teaduspargi 9, 50411 Tartu, Estonia info@solisbiodyne.com Tel. +372 740 9960, Fax. +372 740 2079 | | | |
| Information in case of emergency | Solis BioDyne Tel. +372 740 9960 EU Emergency Service Tel 112 Estonian Poison Center +372 794 3794 | | | |

| 2. HAZARDS IDENTIFICATION | | | |
|---|---|--|--|
| Classificaton of the substance or mixture | Classification according to Regulation (EC) No 1272/2008 | | |
| Physical hazards | Not hazardous | | |
| Health hazards | Not hazardous | | |
| Environmental hazards | Not hazardous | | |
| Explosion hazards | Not hazardous | | |
| Additional hazards | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Rapidly absorbed through skin.The mixture does not contain any nanoforms. | | |
| Label elements | Labelling according to Regulation (EC) No 1272/2008 [CLP] | | |
| Pictograms | None | | |
| Signal word | None | | |
| Hazard statements | Not applicable | | |
| EU Specific Hazard Statements | Not applicable | | |
| Precautionary Statements | | | |
| Prevention | Avoid breathing vapours, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. | | |
| Response | Not applicable | | |
| Storage | Store in cool place. Keep container tightly closed in a dry and well-ventilate place. Store under inert gas. Hygroscopic. Storage until the end of shelf-life (Expiry Date marking on the package). Keep/store only in original/labeled container. Transport conditions in section 14 | | |
| Disposal | Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. | | |

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| Other Hezerde | No andooring digruptore information is evailable |
| Uner hazaros | No endocrine disruptors information is available |
| 0 | |

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous/Non-hazardous Components:

Synonyms: MgCl₂ · 6H₂O, Magnesium chloride hexahydrate

Formula: MgCl₂ · 6H₂O Molecular weight: 203.3 g/mol

CAS-No.: 7791-18-6 EC-No.: 232-094-6

3.2 Mixtures

Hazardous/Non-hazardous Components:

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

There are no additional ingredients (incl nanoforms) present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment.

| 4. FIRST-AID MEASURES | | | |
|--|--|--|--|
| Skin contact | Take off immediately all contaminated clothing. Wash off with soap and plenty of water. Consult a physician. | | |
| Eye contact | Flush eyes with water as a precaution. Remove contact lenses. | | |
| Inhalation | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. | | |
| Ingestion | Make victim drink water (two glasses at most). Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. | | |
| Most important symptoms and effects, both acute and delayed | The most important known symptoms and effects are described in section 11 | | |
| Indication of any immediate medical attention and special treatment needed | None | | |
| Notes to physician | Treat symptomatically | | |

| 5. FIRE-FIGHTING MEASURES | |
|--|---|
| Suitable extinguishing media | Dry chemical, CO ₂ , water spary or alcohol resistant foam. |
| Unsuitable extinguishing media | No information available |
| Special hazards arising from the substance or mixture | Hydrogen chloride gas, Magnesium oxide. Not combustible. Fire may cause evolution of: Hydrogen chloride gas. Ambient fire may liberate hazardous vapours. |
| Protective equipment and precautions for fire-fighters | Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes |

| 6. ACCIDENTAL RELEASE MEASURES | | | |
|--|---|--|--|
| Personal precautions | Avoid breathing vapours, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. | | |
| Personal protective equipment | Use personal protection recommended in Section 8. | | |
| Environmental precautions | Do not allow to enter surface/ sewers or ground water. Prevent further leakage or spillage if safe to do so. See section 12 for additional information. | | |
| Methods and material for containment and cleaning up | Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. | | |

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| 7. HANDLING AND STORAGE | |
|--|---|
| Precautions for safe handling | Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. |
| Conditions for safe storage, including any incompatibilities | Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Hygroscopic. Transport conditions in section 14 |
| Specific uses | Apart from the uses mentioned in section 1 no other specific uses are stipulated. |

| 8. EXPOSURE CONTROLS/PERSONAL PROTECTION | | | |
|--|---|--|--|
| Exposure Limits | Contains no substances with occupational exposure limit values. | | |
| Engineering measures | Showers. Eyewash stations. Ensure adequate ventilation. | | |
| Personal protective equipment: | | | |
| Respiratory protection | Required when dusts are generated. Use in well ventilated areas. Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. | | |
| Skin and body protection | Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. | | |
| Eye and face protection | Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). | | |
| Protection of hands | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Splash contact Material: Nitrile rubber. Minimum layer thickness: 0,11 mm Break through time: 480 min. Material tested:KCL 741 Dermatril® L (KCL 743 / Aldrich Z677388, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 | | |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. | | |
| Environmental exposure controls | Prevent product from entering drains. Do not allow material to contaminate ground water system | | |

| 9. PHYSICAL AND CHEMICAL PROPERTIES | | |
|---------------------------------------|-------------------------------|--|
| Physical state | Liquid, clear | |
| Colour | Colorless | |
| Odour | Sulphurous | |
| pH value | Not applicable | |
| Melting/freezing point | 116.7 °C | |
| Boiling point/ boiling range | No data available | |
| Flammability | The product is not flammable. | |
| Lower and upper explosion limit | No data available | |
| Flash point | No data available | |
| Autoignition temperature | No data available | |
| Decomposition temperature | No data available | |
| Kinematic viscosity | No data available | |
| Solubility in other solvents | No data available | |
| Partition coefficient n-octanol/water | No data available | |

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| Vapor pressure | No data available | |
|--|--|--|
| Vapour density | 1,570 g/cm3 at 20 °C | |
| Density and/or relative density | No data available | |
| Water solubility | 468,7 g/l at 20 °C - OECD Test Guideline 105 | |
| Partition coefficient | Not applicable for inorganic substances | |
| Relative vapour density | No data available | |
| Viscosity | No data available | |
| Oxidizing properties | The substance or mixture is not classified as oxidizing. | |
| Explosive properties | Not explosive | |
| Particle characteristics | No data available | |
| Information with regard to physical hazard classes | Not hazardous | |
| Surface tension | No data available | |

| 10. STABILITY AND REACTIVITY | | |
|------------------------------------|---|--|
| Reactivity | No data available | |
| Chemical stability | Stable under recommended storage conditions | |
| Possibility of hazardous reactions | No data available | |
| Conditions to avoid | No data available | |
| Incompatible materials | No data available | |
| Hazardous decomposition products | Other decomposition products - No data available In the event of fire: see section 5. | |

| Acute toxicicity | | | |
|---|--|-------------------|-----------------------|
| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| Magnesium chloride hexahydrate 7791-18-6 | > 5.0 mg/kg (Rat) | > 2.0 mg/kg (Rat) | Negative (Guinea pig) |
| Skin corrosion/irritation | No skin irritation | | |
| Serious eye damage/irritation | No eye irritation | | |
| Sensitization: | | | |
| Respiratory | No data available | | |
| Skin | No data available | | |
| Germ cell mutagenicity | Negative | | |
| Carcinogenicity | Negative | | |
| Reproductive toxicicity | No data available | | |
| STOT-single exposure | No data available | | |
| STOT-repeated exposure | Rat - male and female - Oral - 54 d - NOAEL (No observed adverse effect level) - > 1.000 mg/kg. Remarks: Subacute toxicity | | |
| Aspiration hazard | No data available | | |
| Endocrine disrupting properties | No data available | | |
| Information on other hazards | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. | | |

| 12. ECOLOGICAL INFORMATION | |
|----------------------------|---|
| Toxicity to fish | LC50 - Pimephales promelas (fathead minnow) - 21119 mg/l - 96 h |

 25 mM MgCl_2 SDS-05-11 v3

| Toxicity to daphnia and other aquatic invertebrates | EC50 - Daphnia magna (Water flea) – 548,4 mg/l - 48 h. |
|---|---|
| Toxicity to algae | EC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201) |
| Toxicity to bacteria | EC50 - activated sludge - > 900 mg/l - 3 h (OECD Test Guideline 209) |
| Mobility in soil | No data available |
| Persistence and degradability | No data available |
| Biodegradability | No data available |
| Bioaccumulative potential | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |
| Ecotoxicity | No data available |
| Endocrine disrupting properties | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| Othe adverse effects | Discharge into the environment must be avoided. |

| 13. DISPOSAL CONSIDERATIONS | |
|---|---|
| Waste handling and disposal | The generation of waste should be avoided or minimized wherever possible. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations. |
| Information regarding the disposal of the packaging | Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique |
| Physical/chemical properties that may affect waste treatment options shall be specified | No special |
| Sewage disposal | Do not empty into drains. Do not dispose of waste into sewer |
| Special precautions for any recommended waste treatment | Consider local regulations and safe disposal procedures |

| 14. TRANSPORT INFORMATION | | |
|---|---|--|
| UN number: | | |
| UN proper shipping name | Not applicable | |
| Transport hazard class (es): | | |
| Packing group | Not applicable | |
| Environmental hazards | Not hazardous goods | |
| Special precautions for user | Handle in accordance with good industrial hygiene and safety practice | |
| Land transport ADR/RID (cross-border): | | |
| ADR/RID class | Not regulated | |
| Air transport ICAO-TI and IATA-DGR: | | |
| ICAO/IATA class | Not regulated | |
| Additional information | This substance is considered to be non-hazardous for transport | |
| Transport conditions | Transport at ambient temperature | |
| Maritime transport in bulk according to IMO instruments | Not regulated | |

| 15. REGULATORY INFORMATION | | |
|----------------------------|--|------|
| | Safety, health and environmental regulations/legislation specific for the substance or mixture | None |

| | Substances of Very High Concern. EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances for Eventual Inclusion in Annex XIV | None |
|--|--|------|
| | Substance subject to authorisation per REACH Annex XIV | None |
| O fata la alla and a significant la | Restricted substances under EC 1907/2006, Annex XVII | None |
| Safety, health and environmetal regulations/legislation specific for the product | Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals) | None |
| | Regulation(EU)No2019/1021 (Stockholm Convention persistent organic pollutants) | None |
| | EU - Substances Depleting the Ozone layer (1005/2009) | None |
| | German Water hazard classes (Wassergefährdungsklassen) | None |
| Chemical safety assessment | No Chemical safety assessment has been carried out | |

| 16. OTHER INFORMATIO | N Company of the Comp |
|------------------------------|--|
| Prepared by | Solis BioDyne / Technology specialist |
| Reason for revision | Revised according (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 (REACH) |
| Revision number | 3 |
| Revision date | 12.06.2023 |
| SDS is valid 3 years from re | evision date. Contact info@solisbiodyne.com for latest revision. |
| Last changes | Added UFI, endocrine disruptors and nanforms information and formal changes in all sections except 4, 5, 6 and 10. |
| This sefety data sheet sem | plies with the requirements of Regulation (EC) No. 1007/2006 and (EU) 2020/879 |

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

IMPORTANT: The information in this SDS is provided in good faith based on our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties or merchantability or fitness for a particular purpose. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable governmental requirements. Since conditions of use of the product are not under the control of Solis BioDyne it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. Solis BioDyne will not be liable for any damages resulting from handling or contact with the product.

Abbreviations:

ADR/RID - Road Transport of Dangerous Material/International Carriage of Dangerous Goods by Rail.

AGW - Time-weighted Average Concentration

EC - European Commission

CLP - Classification, Labelling and Packaging

IATA-DGR – International Air Transport Association-Dangerous Goods Regulations

ICAO-TI - International Civil Aviation Organization-Technical Instructions

IMO - International Maritime Organization

LD - Lethal Dose

NBP - N-Butyl-2-pyrrolidone

OEL - Occupational Exposure Limits

PBT - Persistent Bioaccumulative Toxic

PEL – Permissible Exposure Limits

STEL - Short Term Exposure Limit

STOT – Specific target organ toxicity

TLV - Threshold Limit Value

TWA - Time-Weighted Average





Safety Data Sheet

In accordance with Regulation (EU) 2020/878

Revision date: 12.04.2023 version 4

| 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING | |
|---|---|
| Product name | 100% DMSO |
| Catalog number | DMSO_0.1, DMSO_0.5, DMSO_1, DMSO_4, DMSO_2.5, DMSO_10 |
| REACH registration number | 01-2119431362-50-XXXX |
| CAS number | 67-68-5 |
| ECHA registration number (EC-No) | 200-664-3 |
| Unique formula identifire (UFI) code | Not applicable |
| Molecular Formula | C₂H ₆ OS |
| Recommended use of the chemical and uses advised against | Laboratory Chemicals. Not for consumer use. |
| Manufacturer/Supplier | Solis BioDyne OÜ Teaduspargi 9, 50411 Tartu, Estonia <u>info@solisbiodyne.com</u> Tel. +372 740 9960, Fax. +372 740 2079 |
| Information in case of emergency | Solis BioDyne Tel. +372 740 9960 EU Emergency Service Tel 112 Estonian Poison Center +372 794 3794 |

| 2. HAZARDS IDENTIFICATION | |
|---|--|
| Classificaton of the substance or mixture | Classification according to Regulation (EC) No 1272/2008 |
| Physical hazards | Not hazardous |
| Health hazards | Not hazardous |
| Environmental hazards | Not hazardous |
| Explosion hazards | Not hazardous |
| Additional hazards | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Rapidly absorbed through skin.The mixture does not contain any nanoforms. |
| Label elements | Labelling according to Regulation (EC) No 1272/2008 [CLP] |
| Pictograms | None |
| Signal word | None |
| Hazard statements | Not applicable |
| EU Specific Hazard Statements | Not applicable |
| Precautionary Statements | |
| Prevention | Avoid breathing vapours, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. |
| Response | Not applicable |
| Storage | Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Hygroscopic. Storage until the end of shelf-life (Expiry Date marking on the package). Keep/store only in original/labeled container. Transport conditions in section 14 |
| Disposal | Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. |

| | | 77 |
|---------------|--|----|
| Other Hezerde | | |
| Other Hazards | No endocrine disruptors information is available | |
| | · · | |

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous/Non-hazardous Components: Synonyms: DMSO, Dimethyl sulfoxide

Formula: C₂H₆OS

Molecular weight: 78.13 g/mol

CAS-No.: 67-68-5 EC-No.: 200-664-3

3.2 Mixtures

Hazardous/Non-hazardous Components:

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

There are no additional ingredients (incl nanoforms) present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment.

| 4. FIRST-AID MEASURES | |
|--|--|
| Skin contact | Take off immediately all contaminated clothing. Wash off with soap and plenty of water. Consult a physician. |
| Eye contact | Flush eyes with water as a precaution. Remove contact lenses. |
| Inhalation | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| Ingestion | Make victim drink water (two glasses at most). Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
| Most important symptoms and effects, both acute and delayed | The most important known symptoms and effects are described in section 11 |
| Indication of any immediate medical attention and special treatment needed | None |
| Notes to physician | Treat symptomatically |

| 5. FIRE-FIGHTING MEASURES | |
|--|--|
| Suitable extinguishing media | Dry chemical, CO ₂ , water spary or alcohol resistant foam. |
| Unsuitable extinguishing media | No information available |
| Special hazards arising from the substance or mixture | Carbon oxides, Sulphur oxides. Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire. |
| Protective equipment and precautions for fire-fighters | Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes |

| 6. ACCIDENTAL RELEASE MEASURES | | |
|--|---|--|
| Personal precautions | Avoid breathing vapours, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. | |
| Personal protective equipment | Use personal protection recommended in Section 8. | |
| Environmental precautions | Do not allow to enter surface/ sewers or ground water. Prevent further leakage or spillage if safe to do so. See section 12 for additional information. | |
| Methods and material for containment and cleaning up | Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. | |

| 7. HANDLING AND STORAGE | |
|--|---|
| Precautions for safe handling | Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. |
| Conditions for safe storage, including any incompatibilities | Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Hygroscopic. Transport conditions in section 14 |
| Specific uses | Apart from the uses mentioned in section 1 no other specific uses are stipulated. |

| 8. EXPOSURE CONTROLS/PERS | SONAL PROTECTION | | |
|---------------------------------|---|---|--|
| Exposure Limits | Contains no substances with occupational exposure limit values. | | |
| Chemical Name | Country | Limits | |
| | Austria | 50 ppm 160 mg/m ³ | |
| | Denmark (TWA) | 50 ppm 160 mg/m³ | |
| | Germany OEL (TWA) | 50 ppm exposure factor 2 160 mg/m³ exposure factor 2 | |
| DMSO 67-68-5 | Lithuania OEL (TWA) | 50 ppm 150 mg/m ³ | |
| | Sweden | 50 ppm TLV NGV 150 mg/m³ TLV NGV | |
| | Switzerland | 100 ppm STEL 320 mg/m³ STEL 50 ppm TWA 160 mg/m³ TWA | |
| Engineering measures | Showers. Eyewash stations. E | nsure adequate ventilation. | |
| Personal protective equipment: | | | |
| Respiratory protection | Not required. Use in well ventilated areas. Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. | | |
| Skin and body protection | Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. | | |
| Eye and face protection | Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). | | |
| Protection of hands | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Splash contact Material: Nitrile rubber Minimum layer thickness: 0,2 mm Break through time: 38 min Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 | | |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. | | |
| Environmental exposure controls | Prevent product from entering ground water system | drains. Do not allow material to contaminate | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state | Liquid, clear |
|--|--|
| Colour | Colorless |
| Odour | Sulphurous |
| pH value | Not applicable |
| Melting/freezing point | 16 - 19°C |
| Boiling point/ boiling range | 189°C |
| Flammability | No data available |
| Lower and upper explosion limit | Upper explosion limit: 42 %(V) Lower explosion limit: 3.5 %(V) |
| Flash point | 87°C - closed cup - ASTM D 93 |
| Autoignition temperature | No data available |
| Decomposition temperature | No data available |
| Kinematic viscosity | No data available |
| Solubility in other solvents | Alcohol - soluble Diethylether - soluble |
| Partition coefficient n-octanol/water | No data available |
| Vapor pressure | 0.55 hPa at 20°C 4 hPa at 50°C |
| Vapour density | 2.70 - (Air = 1.0) |
| Density and/or relative density | 1.1 g/mL |
| Water solubility | Completely miscible |
| Partition coefficient | log Pow: -1.349 |
| Relative vapour density | 2.70 - (Air = 1.0) |
| Viscosity | No data available |
| Oxidizing properties | The substance or mixture is not classified as oxidizing. |
| Explosive properties | Not explosive |
| Particle characteristics | No data available |
| Information with regard to physical hazard classes | Not hazardous |
| Surface tension | 43.5 mN/m at 20°C |
| | d |

| 10. STABILITY AND REACTIVITY | | |
|------------------------------------|--|--|
| Reactivity | No data available | |
| Chemical stability | Stable under recommended storage conditions | |
| Possibility of hazardous reactions | No data available | |
| Conditions to avoid | Heat, flames and sparks | |
| Incompatible materials | Acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents | |
| Hazardous decomposition products | Hazardous decomposition products formed under fire conditions Carbon oxides, Sulphur oxides. Other decomposition products - No data available In the event of fire: see section 5. | |

| 11. TOXICOLOGICAL INFORMATION | | | |
|-------------------------------|--------------------------|------------------------|---------------------|
| Acute toxicicity | | | |
| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| DMSO 67-68-5 | 14.500 mg/kg (Rat) | > 5.000 mg/kg (Rabbit) | >40250 ppm (Rat 4h) |
| Skin corrosion/irritation | Mild skin irritation | | |
| Serious eye damage/irritation | May cause eye irritation | | |
| Sensitization: | | | |
| Respiratory | No data available | | |
| Skin | No data available | | |

| Germ cell mutagenicity | No data available |
|---------------------------------|--|
| Carcinogenicity | No data available There are no known carcinogenic chemicals in this product |
| Reproductive toxicicity | No data available |
| STOT-single exposure | No data available |
| STOT-repeated exposure | No data available |
| Aspiration hazard | No data available |
| Endocrine disrupting properties | No data available |
| Information on other hazards | RTECS: PV6210000 Exposure to large amounts can cause:, redness of skin, Itching, burning, sedation, Headache, Nausea, Dizziness. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |

| 12. ECOLOGICAL INFORMATION | |
|---|--|
| Toxicity to fish | LC50 - Pimephales promelas (fathead minnow) - 34.000 mg/l - 96 h LC50 - Oncorhynchus mykiss (rainbow trout) - 35.000 mg/l - 96 h |
| Toxicity to daphnia and other aquatic invertebrates | EC50 - Daphnia magna (Water flea) - 24.600 mg/l - 48 h. (OECD Test Guideline 202) |
| Toxicity to algae | EC50 - Pseudokirchneriella subcapitata (green algae) - 17.000 mg/l - 72 h. (OECD Test Guideline 201) |
| Mobility in soil | No data available |
| Persistence and degradability | No data available |
| Biodegradability | Result: 31 % - According to the results of tests of biodegradability this product is not readily biodegradable. (OECD Test Guideline 301D) |
| Bioaccumulative potential | No data available |
| Ecotoxicity | This product is slightly hazardous for water Do not allow product to reach ground water, water course or sewage system |
| Endocrine disrupting properties | No data available |
| Othe adverse effects | No data available Stability in water – 0.12 – 1.2 h at 30°C Remarks: Hydrolyses readily. |

| 13. DISPOSAL CONSIDERATIONS | | |
|---|---|--|
| Waste handling and disposal | The generation of waste should be avoided or minimized wherever possible. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations. | |
| Information regarding the disposal of the packaging | Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique | |
| Physical/chemical properties that may affect waste treatment options shall be specified | No special | |
| Sewage disposal | Do not empty into drains. Do not dispose of waste into sewer | |
| Special precautions for any recommended waste treatment | Consider local regulations and safe disposal procedures | |

| 14. TRANSPORT INFORMATION | |
|------------------------------|----------------|
| UN number: | |
| UN proper shipping name | Not applicable |
| Transport hazard class (es): | |

| Packing group | Not applicable | | |
|---|---|--|--|
| Environmental hazards | Not hazardous goods | | |
| Special precautions for user | Handle in accordance with good industrial hygiene and safety practice | | |
| Land transport ADR/RID (cross-bo | rder): | | |
| ADR/RID class | Not regulated | | |
| Air transport ICAO-TI and IATA-DO | SR: | | |
| ICAO/IATA class | Not regulated | | |
| Additional information | This substance is considered to be non-hazardous for transport | | |
| Transport conditions | Transport at ambient temperature | | |
| Maritime transport in bulk according to IMO instruments | Not regulated | | |

| 15. REGULATORY INFORMATION | | |
|--|--|--|
| | Safety, health and environmental regulations/legislation specific for the substance or mixture | None |
| | Substances of Very High Concern. EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances for Eventual Inclusion in Annex XIV | None |
| | Substance subject to authorisation per REACH Annex XIV | None |
| Safety, health and environmetal | Restricted substances under EC 1907/2006, Annex XVII | None |
| regulations/legislation specific for the product | Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals) | None |
| | Regulation(EU)No2019/1021 (Stockholm Convention persistent organic pollutants) | None |
| | EU - Substances Depleting the Ozone layer (1005/2009) | None |
| | German Water hazard classes (Wassergefährdungsklassen) | DMSO 67-68-5 (hazard class 1 - slightly hazardous to water) |
| Chemical safety assessment | No Chemical safety assessment has been carried out | |

| 16. OTHER INFORMATION | |
|------------------------------|--|
| Prepared by | Solis BioDyne / Technology specialist |
| Reason for revision | Revised according (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 (REACH) |
| Revision number | 4 |
| Revision date | 12.04.2023 |
| SDS is valid 3 years from re | evision date. Contact info@solisbiodyne.com for latest revision. |
| Last changes | Added UFI, endocrine disruptors and nanforms information and formal changes in all sections except 4, 5, 6 and 10. |
| This safety data sheet com | plies with the requirements of Regulation (FC) No. 1907/2006 and (FU) 2020/878 |

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Abbreviations:

ADR/RID - Road Transport of Dangerous Material/International Carriage of Dangerous Goods by Rail.

AGW - Time-weighted Average Concentration

EC - European Commission

CLP - Classification, Labelling and Packaging

IATA-DGR – International Air Transport Association-Dangerous Goods Regulations

ICAO-TI – International Civil Aviation Organization-Technical Instructions

IMO – International Maritime Organization

LD - Lethal Dose

NBP - N-Butyl-2-pyrrolidone

OEL - Occupational Exposure Limits

PBT - Persistent Bioaccumulative Toxic

PEL – Permissible Exposure Limits

STEL – Short Term Exposure Limit STOT – Specific target organ toxicity

TLV - Threshold Limit Value

TWA - Time-Weighted Average

