

**Safety data sheet**
according to 1907/2006/EC, Article 31

Printing date: 01.06.2017

Version: 2.01

Revision: 01.06.2017

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

- **1.1 Product identifier**
- **Trade name:** DYNASAN® 118 Mikrofein
- **CAS Number:**
555-43-1
- **EC number:**
209-097-6
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:** -
- **Application of the substance / the preparation:**
Raw material for industrial applications
Cosmetic raw material
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier/Manufacturer:**
IOI Oleo GmbH
Arthur-Imhausen Str. 92
D-58453 Witten

- Tel.: ++49-40-280031-0
- **Email competent person:** MSDS@ioioleo.de
- **Information department:** See supplier/manufacturer
- **1.4 Emergency telephone number:**
National Poison Information Service (NPIS)
24 hour national number professionals only
0844 892 0111

- National Health Service (NHS)
24 hour national number consumer
England and Scotland: 111
Wales: 0845 46 47
Northern Ireland: call your local General Practitioner

- Call 999 if there is a life-threatening incident.

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008** The substance is not classified according to the CLP regulation.
- **Additional information:**
Product is not explosive. However, formation of explosive air/dust mixtures is possible.
Product forms slippery surface when combined with water.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description:**
555-43-1 Glycerol tristearate

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- **Identification number(s):**
- **EC number:** 209-097-6
- **INCI:** Tristearin

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** If symptoms persist or in case of doubt, seek medical advice.
- **After inhalation:**
Inhalation of product unlikely. If forming dust is inhaled when handling the product, supply fresh air.
Seek medical treatment in case of complaints.
- **After skin contact:**
Wash with water and soap.
If symptoms persist, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse mouth with water.
In case of unintentional swallowing of larger quantities or if any symptoms occur seek medical treatment.
Never give anything by mouth to an unconscious person.
Do not induce vomiting.
- **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

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** High volume water jet
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Product forms slippery surface when combined with water.
Avoid formation of dust.
Wear protective clothing.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:**
Pick up mechanically.
Avoid any dust formation. Pick up with a tested and approved industrial vacuum cleaner if necessary.
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.

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See Section 13 for disposal information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

Information about protection against explosions and fires:

Dust may combine with air to form an explosive mixture.



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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 container tightly sealed at a cool and dry place with sufficient ventilation.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from feed.

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**SECTION 8: Exposure controls/personal protection****Additional information about design of technical systems:** Install appropriate mechanical ventilation.**8.1 Control parameters****Components with limit values that require monitoring at the workplace:** Not required**CAS No. Designation of material % Type Value Unit****Additional Occupational Exposure Limit Values for possible hazards during processing:**

Observe general threshold limit for dust.

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.

Do not inhale dust/smoke/mist.

Wash hands before breaks and at the end of work.

Breathing equipment:

Not required under normal use

At heavy dust formation:

Short term filter device:

Filter P1

Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust.

Protection of hands:

At longer contact: protective gloves

The glove material has to be impermeable and resistant to the product/substance/preparation.

Due to missing tests no recommendation to the glove material can be given for the product / preparation / chemical mixture.

Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation

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After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves:

For undissolved solid substances following materials may be suitable:

nitrile rubber (NBR), butyl rubber (BR), fluorocarbon rubber (FKM) and polychloroprene rubber (CR)

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.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

(Thickness: 0.35 mm; Permeation time: ≥ 480 minutes)

Butyl rubber, BR

(Thickness: 0.5 mm; Permeation time: ≥ 480 Minuten)

Eye protection: Safety glasses**Body protection:** Protective work clothing**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information:****Appearance:**

Form:	Solid Powder
Colour:	White
Odour:	Odourless
Odour threshold:	Not applicable

pH-value: Not applicable

Change in condition:

Melting point/freezing point:	71.3 °C
Initial boiling point and boiling range:	>400 °C

Flash point: Not applicable

Flammability (solid, gas): Not determined

Ignition temperature:

Decomposition temperature: Not determined

Self ignition temperature: Solid with a melting point < 160 °C

Explosive properties: Product is not explosive. However, formation of explosive air/dust mixtures is possible.

Explosion limits:

Lower:	Not applicable
Upper:	Not applicable

Oxidizing properties: None

Vapour pressure at 20 °C: < 5 Pa

Density:	Not determined
Relative density at 90 °C:	0.8559 g/cm ³
Vapour density:	Not applicable
Evaporation rate:	Not applicable
Dissociation constant pKa	The substance does not dissociate.

Solubility in / Miscibility with Water at 20 °C: < 1 mg/l

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- | | |
|--|---|
| · Partition coefficient: n-octanol/water at 22 °C: > 8 log POW (pH 6) | |
| · Viscosity: | |
| dynamic: | Not applicable |
| kinematic: | Not applicable |
| · 9.2 Other information | No further relevant information available |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications
- **10.3 Possibility of hazardous reactions** Risk of dust explosion if enriched with fine dust while being exposed to air
- **10.4 Conditions to avoid**
 - Heat
 - Dirt
 - Chemical contamination
 - Sunlight, UV or ionizing radiation
- **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

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**
 - 555-43-1 Glycerol tristearate**
 - Oral LD₅₀ >2000 mg/kg (rat) (OECD 401)
 - Dermal LD₅₀ >2000 mg/kg (rat) (OECD 402)
- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritating effect species: rabbit OECD test 404
- **Serious eye damage/irritation** No irritating effect species: rabbit (eye) OECD test 405
- **Respiratory or skin sensitisation**
 - No sensitisation species: guinea pig OECD 406 (Buehler Test)
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **Germ cell mutagenicity**
 - Ames-test: negative
 - Mutagenicity (Salmonella typhimurium): negative
 - OECD 471
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** No classification
- **STOT-repeated exposure** No data available
- **Aspiration hazard** Not relevant

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
 - No harmful effect on fish, daphnia and algae up to its limit of solubility.
 - In analogy to similar product

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- **12.2 Persistence and degradability** Readily biodegradable
- **12.3 Bioaccumulative potential** No bioaccumulation to be expected
- **BCF:** < 10
- **12.4 Mobility in soil** strong adsorption to soil
- **Adsorption coefficient Koc:**
log Koc 14.036
(calculated)
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Other adverse effects** No further relevant information available

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN-Number · ADR, ADN, IMDG, IATA 	Void
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA 	Void
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class 	Void
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	Void
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · 14.6 Special precautions for user 	Not applicable
<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable
<ul style="list-style-type: none"> · UN "Model Regulation": 	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.

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- **National regulations**
- **Water hazard class:**
Generally not hazardous for water
Ident number.: 760
- **15.2 Chemical safety assessment:**
A Chemical safety Assessment has been carried out.
A Chemical Safety Assessment has not been carried out.

SECTION 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:** Layout
- **Replaces version dated:** 06.04.2016
- **Department issuing SDS:**
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- **Contact:** Dr. Rebecca Hiltrop
- **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
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
- **Sources:**
Information provided by the manufacturer
Chemical Safety Report
- *** Data compared to the previous version altered.**
Changes have been made to sections marked with a *, as compared to the previous version.