



Safety Data Sheet dated 31/7/2019, version 3  
Regulation (EU) 2015/830

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

### 1.1. Product identifier

Identification of the mixture:

Trade name: SUNGLOSS  
Trade code: 667.000

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

Wood varnish

### 1.3. Details of the supplier of the safety data sheet

Company:

BOERO BARTOLOMEO S.p.A. - Via Macaggi 19 - 16121 Genova - Tel. +39 010 55001 - Fax +39 010 5500305 - CF/P. IVA/REG. IMPRESE DI GENOVA 00267120103

Competent person responsible for the safety data sheet:

sicurezzaprodotti@boero.it

### 1.4. Emergency telephone number

BOERO BARTOLOMEO S.p.A. - Tel.+39 010 55001

opening hours: Monday - Tuesday 9.00 am - 5.00 pm

UK: in an emergency the enquirer should call NHS 111/24/Direct (free-to-call medical helplines) or a doctor.

MALTA: tel. 112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Flam. Liq. 3, H226 Flammable liquid and vapour.

STOT SE 3, H336 May cause drowsiness or dizziness.

Aquatic Chronic 3, H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

# Safety Data Sheet

## SUNGLOSS

P271 Use only outdoors or in a well-ventilated area.  
P370+P378 In case of fire use CO<sub>2</sub> or chemical powder. Never use water.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/container according to local regulations.

### Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

### Contains

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics  
1-methoxy-2-propanol; monopropylene glycol methyl ether  
Hydroxyphenyl-benzotriazole derivatives - EC number 400-830-7: May produce an allergic reaction.  
2-butanone oxime; ethyl methyl ketoxime: May produce an allergic reaction.  
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl  
1,2,2,6,6-pentamethyl-4-piperidyl sebacate: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:  
None

### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects:

The main adverse physical-chemical effects for human health and the environment are listed in accordance with Sections 9 to 12 of the safety data sheet

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

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## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 30% - < 35% hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

REACH No.: 01-2119463258-33-XXXX, EC: 919-857-5

Flam. Liq. 3 H226 Flammable liquid and vapour.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

STOT SE 3 H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

DECLP (CLP)\*

>= 4% - < 5% 1-methoxy-2-propanol; monopropylene glycol methyl ether

REACH No.: 01-2119457435-35-XXXX, Index number: 603-064-00-3, CAS: 107-98-2, EC: 203-539-1

Flam. Liq. 3 H226 Flammable liquid and vapour.

STOT SE 3 H336 May cause drowsiness or dizziness.

>= 1% - < 2% neodecanoic acid, zirconium salt

CAS: 39049-04-2, EC: 254-259-1

Skin Irrit. 2 H315 Causes skin irritation.

# Safety Data Sheet

## SUNGLOSS

>= 1% - < 2% xylene [4]

REACH No.: 01-2119488216-32-XXXX, CAS: 1330-20-7, EC: 215-535-7

Flam. Liq. 3 H226 Flammable liquid and vapour.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Acute Tox. 4 H332 Harmful if inhaled.

Acute Tox. 4 H312 Harmful in contact with skin.

Skin Irrit. 2 H315 Causes skin irritation.

>= 0.5% - < 1% Hydroxyphenyl-benzotriazole derivatives - EC number 400-830-7

REACH No.: 01-0000015075-76-xxxx, Index number: 607-176-00-3, CAS: 104810-48-2, EC: 400-830-7

Skin Sens. 1,1A,1B H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

>= 0.5% - < 1% 2-butanone oxime; ethyl methyl ketoxime

REACH No.: 01-2119539477-28-XXXX, Index number: 616-014-00-0, CAS: 96-29-7, EC: 202-496-6

Carc. 2 H351 Suspected of causing cancer.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1,1A,1B H317 May cause an allergic skin reaction.

Acute Tox. 4 H312 Harmful in contact with skin.

>= 0.25% - < 0.5% Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

REACH No.: 01-2119491304-40-XXXX, CAS: 111-20-6, EC: 915-687-0

Skin Sens. 1,1A,1B H317 May cause an allergic skin reaction.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

>= 0.01% - < 0.1% dipropylenglycol methylether

CAS: 34590-94-8, EC: 252-104-2

Substance with a Union workplace exposure limit.

\*DECLP (CLP): Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008. The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Remove contaminated clothing immediately and dispose off safely.

667.000/3

Page n. 3 of 12

# Safety Data Sheet

## SUNGLOSS

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do NOT induce vomiting.

Give nothing to eat or drink.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

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

May cause drowsiness or dizziness.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

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## SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire use CO<sub>2</sub> or chemical powder. Never use water.

Extinguishing media which must not be used for safety reasons:

Do not use water jets

None in particular.

5.2. Special hazards arising from the substance or mixture

Avoid inhaling the fumes.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

Move undamaged containers from immediate hazard area if it can be done safely.

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## SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

667.000/3

Page n. 4 of 12

# Safety Data Sheet

## SUNGLOSS

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.  
Adequately ventilated premises.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

Always keep the containers tightly closed.  
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.  
Keep away from food, drink and feed.  
Instructions as regards storage premises:  
Cool and adequately ventilated.  
Adequately ventilated premises.

### 7.3. Specific end use(s)

See section 1.2

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

ACGIH - TWA: 1200 mg/m<sup>3</sup>, 197 ppm

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

EU - TWA(8h): 375 mg/m<sup>3</sup>, 100 ppm - STEL: 563 mg/m<sup>3</sup>, 150 ppm - Notes: Skin

ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT irr

xylene [4] - CAS: 1330-20-7

EU - TWA(8h): 221 mg/m<sup>3</sup>, 50 ppm - STEL: 442 mg/m<sup>3</sup>, 100 ppm - Notes: Skin

AGS - TWA(8h): 221 mg/m<sup>3</sup> - STEL((15 min)): 442 mg/m<sup>3</sup> - Notes: (Anm. H: Ämnet kan lätt upptas genom huden)

ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

AGS - TWA(8h): 221 mg/m<sup>3</sup> - STEL((15 min)): 442 mg/m<sup>3</sup> - Notes: (Anm. H: Ämnet kan lätt upptas genom huden)

VLE1 - TWA(8h): 211 mg/m<sup>3</sup>, 50 ppm

VLE - STEL: 442 mg/m<sup>3</sup>, 100 ppm - Notes: Skin

dipropylenglycol methylether - CAS: 34590-94-8

EU - TWA(8h): 308 mg/m<sup>3</sup>, 50 ppm - Notes: Skin

ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: Skin - Eye and URT irr, CNS impair

### DNEL Exposure Limit Values

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Consumer: 3.3 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 369 ppm - Consumer: 43.9 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 50.6 mg/kg - Consumer: 18.1 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

xylene [4] - CAS: 1330-20-7

Worker Industry: 289 mg/m<sup>3</sup> - Consumer: 174 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 289 mg/m<sup>3</sup> - Consumer: 174 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 180 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

# Safety Data Sheet

## SUNGLOSS

Worker Industry: 77 mg/m<sup>3</sup> - Consumer: 14.8 mg/m<sup>3</sup> - Exposure: Human Inhalation -  
Frequency: Long Term, systemic effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

### PNEC Exposure Limit Values

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Target: Fresh Water - Value: 10 mg/L

Target: Freshwater sediments - Value: 41.6 mg/kg

Target: Marine water sediments - Value: 4.17 mg/kg

Target: Microorganisms in sewage treatments - Value: 100 mg/L

Target: Soil (agricultural) - Value: 2.47 mg/kg

xylene [4] - CAS: 1330-20-7

Target: Fresh Water - Value: 0.327 mg/L

Target: Marine water - Value: 0.327 mg/L

Target: Freshwater sediments - Value: 12.46 mg/kg

Target: Marine water sediments - Value: 12.46 mg/kg

Target: Microorganisms in sewage treatments - Value: 6.58 mg/L

### Biological Exposure Index

xylene [4] - CAS: 1330-20-7

Value: 1.50 mg/L - medium: Blood - Sampling Period: End of turn

Value: 1.50 gg creatinina - medium: Blood - Sampling Period: End of turn

### 8.2. Exposure controls

#### Eye protection:

Use goggles/face mask certified UNI EN 166.

#### Protection for skin:

Suitable protective clothing is required for complete skin protection: for example coveralls with long sleeves and trousers, rubber boots and apron, etc., according to UNI EN 14325.

#### Protection for hands:

Use protective gloves: waterproof rubber gloves certified UNI EN 374. Nitrile gloves provide good protection. Use care in selecting a penetration time of the gloves longer than the foreseen usage time.

#### Respiratory protection:

Use adequate protective respiratory equipment: a carbon filter mask with filters certified UNI EN 149 or dust masks certified UNI EN 140. Filters of types A and P types may be considered.

#### Thermal Hazards:

None

#### Environmental exposure controls:

See sections 6 and 13

#### Appropriate engineering controls:

None

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |            |
|--|------------|
| Appearance :                             | liquid     |
| Odour:                                   | N.A.       |
| Colour:                                  | colourless |
| pH:                                      | N.A.       |
| Melting point / freezing point:          | N.A.       |
| Boiling point (°C):                      | bp>35 °C   |
| Initial boiling point and boiling range: | N.A.       |
| Solid/gas flammability:                  | N.A.       |

667.000/3

Page n. 6 of 12

# Safety Data Sheet

## SUNGLOSS

Upper/lower flammability or explosive limits: N.A.  
Vapour density: N.A.  
Flash point: 37 °C  
Evaporation rate: N.A.  
Vapour pressure: N.A.  
Specific gravity (Kg/L) 20°C : 0.9145  
Methodology:  
Solubility in water: N.A.  
Lipid solubility: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Kinematic viscosity at 40°C (mm<sup>2</sup>/s): kv > 20,5  
Viscosity (23°C+0.5°C): min 120 - max 140  
Methodology: UNI EN ISO 2431 (ex DIN 53211 s)  
Flow cup: ISO 6  
Spindle: 0  
Speed (rpm): 0

### 9.2. Other information

No further information

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### 10.6. Hazardous decomposition products

None.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the product:

SUNGLOSS

#### a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

#### b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

#### c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

#### d) respiratory or skin sensitisation

667.000/3

Page n. 7 of 12

## Safety Data Sheet SUNGLOSS

- Not classified  
Based on available data, the classification criteria are not met
- e) germ cell mutagenicity  
Not classified  
Based on available data, the classification criteria are not met
- f) carcinogenicity  
Not classified  
Based on available data, the classification criteria are not met
- g) reproductive toxicity  
Not classified  
Based on available data, the classification criteria are not met
- h) STOT-single exposure  
The product is classified: STOT SE 3 H336
- i) STOT-repeated exposure  
Not classified  
Based on available data, the classification criteria are not met
- j) aspiration hazard  
Not classified  
Based on available data, the classification criteria are not met
- Toxicological information of the main substances found in the product:  
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
- a) acute toxicity:  
Test: LC50 - Route: inhalation - Species: rat > 4951 mg/m<sup>3</sup> - Duration: 4h - Source: OECD 403  
Test: LD50 - Route: oral - Species: rat > 5000 mg/kg  
Test: LD50 - Route: dermal - Species: rabbit > 5000 mg/kg  
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
- a) acute toxicity:  
Test: LD50 - Route: oral > 2000 mg/kg  
xylene [4] - CAS: 1330-20-7
- a) acute toxicity:  
Test: LD50 - Route: oral - Species: rat > 3500 mg/kg  
Test: LD50 - Route: dermal - Species: rabbit > 4200 mg/kg  
Test: LC50 - Route: inhalation of vapours - Species: rat > 20 ml/l
- c) serious eye damage/irritation:  
Test: Eye Irritant Positive

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

#### SUNGLOSS

The product is classified: Aquatic Chronic 3 - H412

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

#### a) Aquatic acute toxicity:

Endpoint: NOEC - Species: Fish = 100 mg/l - Duration h: 72 - Notes: OECD TG 201

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

#### a) Aquatic acute toxicity:

667.000/3

Page n. 8 of 12



# Safety Data Sheet

## SUNGLOSS

- Endpoint: LC50 - Species: Fish > 100 mg/l  
xylene [4] - CAS: 1330-20-7
- a) Aquatic acute toxicity:
- Endpoint: LC50 - Species: Fish > 1 ml/l - Duration h: 96  
Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24  
Endpoint: EC50 - Species: Algae 18204.2 5 mg/l - Duration h: 72
- 12.2. Persistence and degradability  
There is no data available on the preparation itself.  
N.A.
- 12.3. Bioaccumulative potential  
There is no data available on the preparation itself.  
N.A.
- 12.4. Mobility in soil  
There is no data available on the preparation itself.  
N.A.
- 12.5. Results of PBT and vPvB assessment  
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects  
None

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## SECTION 13: Disposal considerations

- 13.1. Waste treatment methods  
Recover if possible. In so doing, comply with the local and national regulations currently in force.  
Directives 91/156/CEE, 91/689/CEE, 94/62/CE.  
EWC CODE 080111  
Do not empty into drains, ground or waterways. Dispose of product residues and related containers at a collection point for hazardous or special waste or, where appropriate, through an authorized waste disposal company.

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## SECTION 14: Transport information

- 14.1. UN number  
UN 1263
- 14.2 Proper shipping name: Paint
- 14.3 Transport hazard class(es) and Packing Group:  
3 PG III
- 14.4. Environmental hazards  
Marine Pollutant: -
- 14.5. Special precautions for user  
None
- Other informations  
Land transport ADR/RID  
Exemptions: ADR:2.2.3.1.5 - IMDG:2.3.2.5  
ADR Classification code: F1  
Maximum quantity for Limited Quantities: 5L/Kg  
Tunnel code :D/E  
Transport category: 3
- Maritime transport (IMDG)  
Exemptions: ADR:2.2.3.1.5 - IMDG:2.3.2.5  
Maximum quantity for Limited Quantities: 5L/Kg  
EmS number: F-E/S-E

667.000/3

Page n. 9 of 12

# Safety Data Sheet

## SUNGLOSS

Stowage provisions: A  
Air transport(IATA/ICAO)  
Exemptions: ADR:2.2.3.1.5 - IMDG:2.3.2.5  
Maximum quantity for Limited Quantities: 5L/Kg  
Pkg. inst. passenger and cargo aircraft: 309  
Pkg. inst. cargo aircraft only: 310  
Erg-code: 3L

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### SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 89/391/CEE and subsequent amendments (Risks related to chemical agents at work and Occupational exposure limit values). Directive 1999/13/EC and subsequent amendments (limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations). Regulation (CE) n. 1907/2006 , Regulation (CE) 830/2015 and subsequent amendments (concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals - REACH). Regulation (CE) n.1272/2008 and subsequent amendments (on classification, labeling and packaging of substances and mixtures - CLP).

International Maritime Dangerous Goods Code, IATA Dangerous Goods Regulation, International Carriage of Dangerous Goods by Road (ADR).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restriction 3 is not applicable because the mixture does not fall within the restrictions mentioned in Annex XVII of EC Regulation No. 1907/2006.

Restriction 40 is not applicable because the mixture does not fall within the restrictions mentioned in Annex XVII of EC Regulation No. 1907/2006.

Where applicable, refer to the following regulatory provisions :

Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products.

Regulation UE No 649/2012 concerning the export and import of dangerous chemicals.

Regulation UE n. 528/2012 concerning the making available on the market and use of biocidal products.

Directive 2012/18/EU (Seveso III)

Regulation (EC) No. 648/2004 (detergents).

Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products.

Regulation (EC) No 689/2006 concerning the export and import of dangerous chemicals.

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

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### SECTION 16: Other information

667.000/3

Page n. 10 of 12

# Safety Data Sheet

## SUNGLOSS

| Hazard class and hazard category | Code          | Description  |
|----------------------------------|---------------|--|
| Flam. Liq. 3                     | 2.6/3         | Flammable liquid, Category 3                                   |
| Acute Tox. 4                     | 3.1/4/Dermal  | Acute toxicity (dermal), Category 4                            |
| Acute Tox. 4                     | 3.1/4/Inhal   | Acute toxicity (inhalation), Category 4                        |
| Asp. Tox. 1                      | 3.10/1        | Aspiration hazard, Category 1                                  |
| Skin Irrit. 2                    | 3.2/2         | Skin irritation, Category 2                                    |
| Eye Dam. 1                       | 3.3/1         | Serious eye damage, Category 1                                 |
| Eye Irrit. 2                     | 3.3/2         | Eye irritation, Category 2                                     |
| Skin Sens. 1,1A,1B               | 3.4.2/1-1A-1B | Skin Sensitisation, Category 1,1A,1B                           |
| Carc. 2                          | 3.6/2         | Carcinogenicity, Category 2                                    |
| STOT SE 3                        | 3.8/3         | Specific target organ toxicity - single exposure, Category 3   |
| STOT RE 2                        | 3.9/2         | Specific target organ toxicity - repeated exposure, Category 2 |
| Aquatic Acute 1                  | 4.1/A1        | Acute aquatic hazard, category 1                               |
| Aquatic Chronic 1                | 4.1/C1        | Chronic (long term) aquatic hazard, category 1                 |
| Aquatic Chronic 2                | 4.1/C2        | Chronic (long term) aquatic hazard, category 2                 |
| Aquatic Chronic 3                | 4.1/C3        | Chronic (long term) aquatic hazard, category 3                 |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|--------------------------|
| Flam. Liq. 3, H226  | On basis of test data    |
| STOT SE 3, H336   | Calculation method       |
| Aquatic Chronic 3, H412                                   | Calculation method       |

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van

667.000/3

Page n. 11 of 12

# Safety Data Sheet

## SUNGLOSS

### Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

|             |  |
|-------------|--|
| ADR:        | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| ATE:        | Acute Toxicity Estimate  |
| ATEmix:     | Acute toxicity Estimate (Mixtures)   |
| CAS:        | Chemical Abstracts Service (division of the American Chemical Society).              |
| CLP:        | Classification, Labeling, Packaging.   |
| DNEL:       | Derived No Effect Level.   |
| EINECS:     | European Inventory of Existing Commercial Chemical Substances.                       |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany.  |
| GHS:        | Globally Harmonized System of Classification and Labeling of Chemicals.              |
| IATA:       | International Air Transport Association.   |
| IATA-DGR:   | Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  |
| ICAO:       | International Civil Aviation Organization.   |
| ICAO-TI:    | Technical Instructions by the "International Civil Aviation Organization" (ICAO).    |
| IMDG:       | International Maritime Code for Dangerous Goods.                                     |
| INCI:       | International Nomenclature of Cosmetic Ingredients.                                  |
| KSt:        | Explosion coefficient.   |
| LC50:       | Lethal concentration, for 50 percent of test population.                             |
| LD50:       | Lethal dose, for 50 percent of test population.                                      |
| PNEC:       | Predicted No Effect Concentration.   |
| RID:        | Regulation Concerning the International Transport of Dangerous Goods by Rail.        |
| STEL:       | Short Term Exposure limit.   |
| STOT:       | Specific Target Organ Toxicity.  |
| TLV:        | Threshold Limiting Value.  |
| TWA:        | Time-weighted average  |
| WGK:        | German Water Hazard Class.   |