

## SAFETY DATA SHEET

[info@deffner-johann.de](mailto:info@deffner-johann.de) | +49 9723 9350-0

Die in diesem Produktdatenblatt genannten Spezifikationen dienen nur zur Produktbeschreibung und beziehen sich auf den Zeitpunkt unmittelbar nach der Produktion bzw. Import des Produktes. Sie entsprechen den Angaben des Herstellers. Eine rechtsverbindliche Zusicherung bestimmter Eigenschaften oder der Eignung für einen bestimmten Einsatzzweck kann hieraus nicht abgeleitet werden. Durch unsachgemäßen Transport und / oder unsachgemäße Lagerung können sich Änderungen ergeben. Die Angaben in diesem Produktdatenblatt entbinden den Verarbeiter nicht von eigener Prüfung der Eigenschaften des Produktes und dessen Eignung für die vorgesehene Verwendung.



## **NANORESTORE CLEANING WAX**

Date of compilation: 21/12/2015  
Revision: 0 of 21/12/2015

### **MATERIAL SAFETY DATA SHEET**

In accordance with Regulation (EC) 1907/2006 and Regulation 830/2015

#### **1. Identification of the substance/mixture and of the company/enterprise**

**1.1 Product identifier:** **NANORESTORE CLEANING WAX**

**1.2 Relevant identified uses of the substance or mixture:**

Laboratory chemicals.

**1.3 Details of the supplier of the safety data sheet:**

CSGI – Consorzio per lo Sviluppo dei Sistemi a Grande Interfase  
Via della Lastruccia, 3  
50019 Sesto Fiorentino (FI)  
Tel.055-4573035  
Fax 055-4573036

**1.4 Emergency phone number:**

055-4573244 (call during office hours)

e-mail TC: [products@csgi.unifi.it](mailto:products@csgi.unifi.it)

#### **2. Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008:**

Serious eye damage (category 1)

Germ cell mutagenicity (category 1B)

Carcinogenicity (Category 1B)

**Hazard statement Code(s):**

H318 - Causes serious eye damage

H340 - May cause genetic effects

H350 - May cause cancer

**2.2. Label elements:**

**Pictogram, Signal Word Code(s):**

Danger



**Hazard statement Code(s):**

H318 - Causes serious eye damage

H340 - May cause genetic effects

H350 - May cause cancer

**Precautionary statements:**

Prevention

P201 - Obtain special instructions before use.

P280 - Wear protective gloves/protective clothing/eye protection/face protection

---

---

**NANORESTORE CLEANING WAX**

---

---

**Response**

P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P308+P313 - If exposed or concerned: get medical advice/attention

P310 - Immediately call a POISON CENTER/doctor

**Storage**

P405 - Store locked up.

**Contains:**

Alkyl(C<sub>9-11</sub>) alcohol, ethoxylated; Ligroine

**2.3 Other hazards:**

none information

**3. Composition/Information on ingredients**

**3.2 Mixtures**

Chemical composition:

<b>Name</b>	<b>Concentration (C)</b>	<b>Classification Regulation CE/1272/2008</b>	
Alkyl(C <sub>9-11</sub> ) alcohol, ethoxylated Cas No 68439-46-3 Polymer	3 < C ≤ 5	Acute Tox. 4 Eye Dam. 1	H302 H318
p-Xylene* Cas No 106-42-3 CE No 203-396-5 Index No 601-022-00-9	0.5 < C ≤ 1	Flam. Liq. 3 Acute Tox. 4 Skin Irrit. 2 Acute Tox. 4	H226 H312 H315 H332
Ligroine Cas No 8032-32-4 CE No 232-453-7 Index No 649-263-00-9	0.5 < C ≤ 1	Asp. Tox. 1 Muta. 1B Carc.1B	H304 H340 H350
Sodium dodecyl sulphate Cas No 151-21-3 CE No 205-788-1	0.5 < C ≤ 1	Flam. Sol. 2 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 STOT SE 3 Aquatic Chronic 3	H228 H332 H302 H315 H318 H335 H412

The full text of hazard statements is specified in section 16.

\* Substance with occupational exposure limit

**4. First-aid measures**

**4.1 Description of first aid measures**

Inhalation

Remove to fresh air. Seek medical attention immediately.

Skin contact

Take off all contaminated clothing and wash with plenty of water and soap. Seek medical attention if skin irritation, swelling or redness develops and persists. Wash contaminated clothing before using them.

Eyes contact

Irrigate copiously with clean, fresh water for at least 15 minutes, keeping eyelids well- opened. Seek medical attention immediately.

Ingestion

Medical emergency. Don't induce vomiting. Never give anything by mouth to an unconscious and if it is not indicated by the doctor.

Other

Change contaminated clothing.

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

Not available

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

Inhalation: seek medical attention immediately

Skin contact: seek medical attention immediately.

Eyes contact: consult a specialist

Ingestion: medical emergency.

## 5. Fire-fighting measures

5.1 Extinguishing media

Advised extinguishing agents:

CO<sub>2</sub>, nebulized water, foam, chemical powder

Unappropriate extinction methods:

none

5.2. Special hazards arising from the substance or mixture

The product under fire condition may develop irritant/toxic gas (CO<sub>x</sub>, SO<sub>x</sub>)

5.3. Advice for firefighters

Wear the fire equipment all the time. Water used in fire-fighting has to be disposed following local regulation.

## 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency dust procedures

Avoid the contact with skin and eyes. In the case of vapor formation use suitable protective devices. Supply a good air circulation. Move away any unauthorised person. Eliminate or exclude any source of ignition.

6.2. Environmental precautions

Collect the product in suitable container for disposal. Notify authorities if product enters sewer or public waters.

6.3. Methods and material for containment and cleaning up

Cover the spillage with inert absorbent material. Collect spilled material and place in containers for later disposal. Use water only to remove residuals, so as to prevent the spillage of the product

in the sewers.

6.4 Reference to other sections

Refer to paragraphs 8 and 13 for more information

**7. Handling and storage**

7.1. Precautions for safe handling

Follow the good industrial hygiene and safety procedures. Avoid contact and vapors inhalation. Do not smoke, eat or drink during the working processes. Supply good air circulation in working area.

7.2. Conditions for safe storage, including any incompatibilities

Store the packaging closed in a fresh and ventilated area, far from sources of ignition. Store separately from oxidizing agents.

7.3. Specific end use(s)

For particular uses of the product, is necessary to refer to the specific information or contact the technical service of the Company.

**8. Exposure controls/ personal protection**

8.1. Control parameters

**p-Xylene:**

OEL-EU: 221 mg/m<sup>3</sup>, 50 ppm (as TWA); 442 mg/m<sup>3</sup>, 100 ppm (as STEL)

8.2 Exposure controls

Avoid all unnecessary exposure, handle in accordance with good industrial hygiene and safety procedures. Avoid contact with the eyes and skin .Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals.

Individual protection

The DPI's choice must be done on the basis of the test's results obtained according to the rule EN 374

- Hand protection : protective gloves of nitrile, neoprene.
- Penetration time of glove material: the exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection : protective goggles
- Skin protection : suitable protective clothing
- Respiratory protection : mask with filter (Type ABEK)

**9. Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	colorless liquid	
Odour	characteristic	
Odour threshold	not available	
pH	6-7	
Melting point/freezing point	not available	
Initial boiling point and boiling range	not available	
Flash point	>60°	
Evaporation rate	not available	

---

## NANORESTORE CLEANING WAX

---

Flammability (solid, gas)	not pertinent
Upper/lower flammability or explosive limits	not pertinent
Vapour pressure	not available
Vapour density	not available
density	0.94 g/cm <sup>3</sup>
Solubility	not pertinent
Water solubility	not pertinent
Partition coefficient: n-octanol/water	not available
Auto-ignition temperature	not available
Decomposition temperature	not available
Viscosity	not available
Explosive properties	not explosive
Oxidising properties	not oxidizing

### 9.2. Other information

VOC (Directive 1999/13/CE): 1-2%

## 10. Stability and reactivity

### 10.1. Reactivity

In contact with strong oxidants exothermal reaction may occur.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

**p-Xylene:**oxidizing materials

### 10.6. Hazardous decomposition products

Due to thermal decomposition or in the event of a fire, vapours may be produced potentially dangerous to health (CO<sub>x</sub>, SO<sub>x</sub>).

## 11. Toxicological information

### 11.1. Information on toxicological effects

ATE(mix) oral = 9548,9 mg/kg

ATE(mix) dermal = 115789,5 mg/kg

ATE(mix) inhal = 578,9 mg/l/4 h

#### Acute effects:

(a) acute toxicity: based on available data, the classification criteria are not met.

(b) skin corrosion/irritation: based on available data, the classification criteria are not met.

(c) serious eye damage/irritation: if brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

(d) respiratory or skin sensitization: based on available data, the classification criteria are not met.

(e) germ cell mutagenicity: the product may pose risks of mutagenesis

(f) carcinogenicity: the product has a risk of carcinogenesis

(g) reproductive toxicity: based on available data, the classification criteria are not met.

(h) specific target organ toxicity (STOT) single exposure: based on available data, the

classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.

(j) aspiration hazard: based on available data, the classification criteria are not met.

**p-Xylene:**

ROUTES OF EXPOSURE: the substance can be absorbed into the body by inhalation and through the skin and if swallowed.

INHALATION RISK: a harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20 °C.

EFFECTS OF SHORT-TERM: the substance is irritant to eyes and to the skin. The substance may cause effects on the central nervous system. If the liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis.

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: the liquid degrades the skin. The substance may cause effects on the central nervous system. Animal tests indicate the possibility that this substance causes toxicity to human reproduction or development.

**ACUTE HAZARDS / SYMPTOMS**

INHALATION: vertigo. Drowsiness. Headache. Nausea.

SKIN: dry skin. Redness.

EYES: redness. Pain.

INGESTION: burning sensation. Abdominal pain. (Further see "Inhalation").

NOTES: depending on the degree of exposure, periodic medical examination is indicated.

LD50: 5627 mg/kg bw (oral, mouse)

**Ligroine:**

LD50: > 5000 mg/kg bw (oral, rat)

LC50: > 5610 mg/m<sup>3</sup> air/h<sup>4</sup> (analytical) (inhalation, rat)

LD50: > 2000 mg/kg bw (dermal, rabbit)

**Sodium dodecyl sulphate:**

LD50: 1200 mg/kg bw (oral, rat)

## **12. Ecological information**

### 12.1. Toxicity

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

**Sodium dodecyl sulphate:**

LC50: 29 mg / L / 96h (Pimephales promelas)

LC50: 3.15 mg / L / 48h (Artemia salina)

### 12.2. Persistence and degradability:

**p-Xylene:** readily biodegradable

BOD<sub>5</sub>: 2.53 g O<sub>2</sub>/g test mat.

COD: 2.62 g O<sub>2</sub>/g test mat.

**Ligroine:** readily biodegradable: degradability 77.05 (28 days)

**Sodium dodecyl sulphate:** degradability 75.5% (35 days)

### 12.3. Bioaccumulative potential:

**p-Xylene:** log Pow 3.2

**Sodium dodecyl sulphate:** log Pow ≤ -2.03 (20 ° C)

BCF: 1.5 about

### 12.4. Mobility in soil: not available

*12.5. Results of PBT and vPvB assessment:*

**p-Xylene:** the substance is not PBT / vPvB

**Ligroine:** the substance is not PBT / vPvB

**Sodium dodecyl sulphate:** the substance is not PBT / vPvB

*12.6. Other adverse effects:* not available

This product doesn't contain AOX

**13. Disposal considerations**

*13.1. Waste treatment methods*

Operate following the current Local or National Laws.

The non reclaimed containers have to be disposed as the product.

**14. Transport information**

*14.1. UN number*

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

*14.2. UN proper shipping name*

None

*14.3. Transport hazard class(es)*

None

*14.4. Packing group*

None

*14.5. Environmental hazards*

None

*14.6. Special precautions for user*

No data available

*14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code*

It is not intended to carry bulk

**15. Regulatory information**

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

Regulation	Cas	Substance
428/2009 ex CE 1334/2000 Ann.1	-	-
273/04 Tab.1 Cat.1	-	-
273/04 Tab.1 Cat.2	-	-
273/04 Tab.1 Cat.3	-	-
Reg. CE 1907/2006 Ann. XIV	-	-
Reg. CE 1907/2006 Substances SVHC	-	-



---

**NANORESTORE CLEANING WAX**

---

Reg. CE 1907/2006 Ann. XVII	-	-
2003/105/CE Ann.1 part 1	-	-
2003/105/CE Ann.1 part 2	-	-
2012/18/UE Ann.1 part 1	-	-
2012/18/UE Ann.1 part 2	151-21-3 106-42-3	Sodium dodecyl sulphate p-Xylene

**15.2. Chemical safety assessment**

none

**16. Other information****Description of the sentences of risk set out in paragraph 3:**

H302 = Harmful if swallowed.  
H318 = Causes serious eye damage.  
H226 = Flammable liquid and vapour.  
H312 = Harmful in contact with skin.  
H315 = Causes skin irritation.  
H332 = Harmful if inhaled.  
H304 = May be fatal if swallowed and enters airways.  
H340 = May cause genetic effects .  
H350 = May cause cancer .  
H228 = Flammable solid.  
H318 = Causes serious eye damage.  
H412 = Harmful to aquatic life with long lasting effects.

*Classification based by calculation on data of all components of the mixture.*

**GENERAL BIBLIOGRAPHY:**

1. Regolamento (CE) 1907/2006 del Parlamento Europeo (REACH)
2. Regolamento (CE) 1272/2008 del Parlamento Europeo (CLP) e successivi adeguamenti
3. Regolamento (CE) 790/2009
4. Regolamento (UE) 453/2010
5. Regolamento (UE) 830/2015
6. The Merck Index. Ed. 10
7. Handling Chemical Safety
8. Niosh - Registry of Toxic Effects of Chemical Substances
9. INRS - Fiche Toxicologique
10. Patty - Industrial Hygiene and Toxicology
11. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
12. ADR direttiva 2008/68/CE e successivi adeguamenti
13. ECHA Web site <http://echa.europa.eu/web/guest>
14. Directive 2012/18/UE
15. Directive 2009/161/UE

**Note for users:**

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

---

**NANORESTORE CLEANING WAX**

---

This sheet cancels and substitutes any previous edition.