SAFETY DATA SHEET

According to No. 1907/2006/EC (REACH) and Regulation No. 2015/830/EU

POLISHING COMPOUND Unipol® Dialux yellow

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

Product description:	Polishing compound Unipol®Dialux yellow
Usage:	Polishing
Company identification:	OSBORN GmbH Rudolf-Harbig-Weg 10 42781 Haan
Emergency phone:	Tel.: +49 2129 930717 Contact: sschirpenbach@osborn.de

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No *1272/2008* [CLP]

The substance is not classified according to the CLP regulation

Physical Hazard: not classified

Human Health Hazard: not classified

Environmental Hazard: not classified

Classification according to Regulation *67/548/EEC* [DSD] or Directive 1999/45/EC

According to current European laws and regulations the product is not dangerous or toxic material (based on the available data). No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Generally chemical description mixture of fatty acids, tallow, paraffine, tripoli

Substance	CAS Number	EINECS-No	% conc	classification (Reg.CE 1272/2008)	hazard statement	registration-number
Microcristalline silica (tripoli)	1317-95-9	-	60-70	not classified	-	exempted (Art. 2.7.b.)
Microcristalline silica (tripoli) (fine, respirable fraction)	1317-95-9	-	1-20	STOT RE 1	H 372	exempted (Art. 2.7.b.)
Quartz	140808-60-7	238-878-4	<0,1	STOT RE 1	H 372	exempted (Art. 2.7.b.)
christobalite	14464-46-1	238-455-4	<0,1	STOT RE 1	H 372	exempted (Art. 2.7.b.)
Tridimite	15468-32-3	239-487-1	<0,1	STOT RE 1	H 372	exempted (Art. 2.7.b.)

4. FIRST AID MEASURES

4.1 First aid measures description

4.1.1 In case of inhalation:
Remove source of contamination or have victim move to fresh air.
If suffocation is serious, Seek medical assistance immediately.

4.1.2 In case of skin contact:
Rinse skin with water/shower.
Remove contaminated clothing immediately.

4.1.3 In case of eye contact:
Immediately flush the contaminated eye with running water for several minutes.

4.1.4. After swallowing:
If swallowed, do not induce vomiting. Rinse mouth, drink plenty of water. Never give anything to an unconscious person.

4.2 Information on medical assistance

Medical assistance is required if there are adverse symptoms or after a long exposure. Treatment should generally be symptomatic and palliative.

4.3 Indication of the immediate medical assistance and special treatment needed

Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatment:	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media:	Foam, carbon dioxide, water mist, dry powder - no restriction.
Environmental hazards:	In the event of fire the following can be released: CO, CO_2, NO_x.
Particular hazards:	Use adequate extraction devices. Do not allow contaminated water into drains / groundwater
Personal Protection:	Wear suitable protective clothing, eye protection and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure adequate exhaust ventilation.
Environmental precautions:	Do not discharge into drains/ surface waters/ groundwater.
Methodes for cleaning up/taking up:	Take up mechanically, send in suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Local exhaust ventilation is strongly recommended when used for normal polishing operation.
A dust mask may be adequate for smaller quantities and/or intermittent use.
Also refer to 8. Exposure Controls / Personal Protection.
Store in a cool dry place (5°< t < 35°C) away from foodstuffs.

Should be consumed within 24 months after day of production.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits/ Respiratory protection:	Refer to „7. Handling and Storage“ and „15. Regulatory information“. If dust levels are likely to exceed the OES, a dust mask should be worn complying with BS EN 149 „Specification for filtering half masks to protect against particles“.
Eye protection:	Goggles should be worn if necessary. Avoid contact with eyes.
Personal protective equipment:	Overalls and gloves may help to prevent workers becoming excessively dirty.

8.1. control parameters

Ingredients with limit values which require monitoring at the workplace

substance	Limit value Type		Comments	Source	Year
Crystalline silica (christobalite or quartz) respirable fraction	VLA-ED	0,05 mg/m³	Spain	INSHT	2017
Tripoli (as quartz)	VLA	0,1 mg/m³	Belgium	IFA	2017
Tripoli (as quartz)	VLA	0,1 mg/m³	Canada (Ontario, Quebec)	IFA	2017
Tripoli (as quartz)	VLA-ED	0,1 mg/m³	Ireland	IFA	2017
Tripoli (as quartz)	VLA-ED	0,2 mg/m³	New Zealand	IFA	2017
Tripoli (as quartz)	VLA-ED	0,1 mg/m³	Singapore	IFA	2017
Tripoli (as quartz)	VLA-ED	0,1 mg/m³	South Korea	IFA	2017
Tripoli (as quartz)	VLA-ED	0,05mg/m³	USA-NIOSH	IFA	2017
Silica, respirable crystalline	**VLA-ED**	**0,1 mg/m³**	**EU**	**IFA**	2017
Silica, respirable crystalline	VLA-ED	0,1 mg/m³	Australia	IFA	2017
Silica, respirable crystalline	VLA-ED	0,15 mg/m³	Austria	IFA	2017
Silica, respirable crystalline	VLA-ED	0,1 mg/m³	Belgium	IFA	2017
Silica, respirable crystalline	VLA-ED	0,05mg/m³	Canada - Quebec	IFA	2017
Silica, respirable crystalline	VLA-ED	0,05mg/m³	Denmark	IFA	2017
Silica, respirable crystalline	VLA-ED	0,05mg/m³	Finland	IFA	2017
Silica, respirable crystalline	VLA-ED	0,1 mg/m³	Ireland	IFA	2017
Silica, respirable crystalline	VLA-ED	0,1 mg/m³	Israel (limitceling)	IFA	2017
Silica, respirable crystalline	VLA-ED	0,03 mg/m³	Japan (JSOH	IFA	2017
Silica, respirable crystalline	VLA-ED	0,15 mg/m³	Switzerland	IFA	2017
Silica, respirable crystalline	VLA-ED	0,0758 mg/m³	The Netherlands	IFA	2017
Silica, respirable crystalline	VLA-ED	0,05mg/m³	USA-NIOSH	IFA	2017
Silica, respirable crystalline	VLA-ED	0,1 mg/m³	United Kingdom	IFA	2017

Additional Occupational Exposure Limit Values for possible hazards during processing:
Observe general threshold limit for dust. Details see TRGS 900
Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:
Use suitable respiratory protective device only when aerosol or mist is formed.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use selfcontained respiratory protective device.

Filter	P2
Protection of hands:	Oil resistant gloves
Material of gloves	Nitrile
Penetration time glove material	The exact break trough time has to be found out by the manufacturer of the protective gloves of and has to be observed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	solid	Colour:	brown
Odour:	characteristic/ mild	Vapour Pressure	n.a.
Melting Point:	n.a.	pH-value:	n.a.
Boiling Point:	n.a.	Flammability:	n.a.
Explosive Properties:	none		
oxidising properties:	none		
Relative Density:	approx. 1,5 g/cm³ at 20°C		
Solubility in water:	non soluble		

10. STABILITY AND REACTIVITY

Stable under normal conditions. Hazardous decomposition products: CO, CO_2, No_x. Contact with acids to be avoided. there are not dangerous reaction or hazardous composition products observed as long as the product and the waste product (polishing waste) will be stored and used properly.

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity
The substance is not classified in any category of acute toxicity hazard.
Skin contact: The product is not classified as irritant according to the criteria of Regulation (CE) 1272/2008. Extended exposure may dry and crack the skin, and cause irritation in sensitive individuals.

Eye contact: The substance may irritate the eyes by mechanical action (rubbing), although severe lesions are not to be expected.

Ingestion: According to available information the acute oral toxicity of the substance will foreseeable be greater than 2000 mg/kg (rat). Ingestion of large amounts may cause mild intestinal irritation.

Inhalation: Acute inhalatory exposure (short term) may cause coughing and difficulty to breathe in the event of exposure to large concentrations of the substance.

11.2 Chronic toxicity

Information given is based on data obtained similar substances. Did not show any carcinogenic effects in animal experience (weight of evidence approach).

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
The product itself is not known to be dangerous to the environment. However due to its potential generation of suspended particulate matter in water, which may cause high turbidity –with the subsequent deleterious effect to aquatic ecosystems, it must not be discharged in large amounts to surface waters

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Consideration
In accordance with national and local regulations special waste must be taken to an authorised waste incineration plant. Disposal code according to EAK / EWC: 120115. All packing material must be fully discharged and can be recycled after cleaning.
Spoiled packing must be disposed like the product itself.

13.1 Suitable waste treatment/s limination methods:

Whenever possible the product, as inert waste, shall be valorized.
If this is not possible, elimination must be carried out in accordance with regional, national and Community legislation on disposal of waste and containers that have contained it. If during its use, the product is contaminated or mixed with dangerous substances, the waste generated may have to be managed as hazardous waste, as a function of the nature and quantity of the hazardous substances present.

13.2 Code of the EWL applicable: 01 04 10 Dusty and powdery wastes other than those mentioned in 01 04 07. Other waste that may occur as a result of the identified uses of the substance 13 08 02* Other emulsions. (Within the subcategory “Oil wastes not otherwise specified”). 12 01 01 Ferrous metal filings and turnings. 12 01 03 Non-ferrous metal filings and turnings 08 04 17* Rosin oil 02 01 03 Plant-tissue waste

14. TRANSPORT INFORMATION

ADR / UN No.: The product does not constitute a hazardous substance in national/international road, rail, sea and air transport

IMDG / IATA: Not classified as dangerous goods.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture labeling according to

Regulation (EC) No 1272/2008	Void
Hazard pictograms	Void
Signal word	Void
Hazard statements	Void

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out

16. OTHER INFORMATION

16.1 This material safety data sheet has been elaborated according to Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

The information contained herein is based, to our best knowledge, on the technical information available on the product up to date. Users are advised that there is an inherent risk associated in the use of the product for different purposes to those for which it is intended. This document does not exempt, in any way, the user of the product from the duty of fully understanding and applying all regulatory requirements. It is the sole responsibility of the receiver of this document to adopt the necessary precautionary measures necessary for the use made of the product.

All the information contained herein is provided, exclusively, with the aim of aiding the receiver to comply with his regulatory obligations with regard to the use of dangerous substances. The present list of information must not be considered as exhaustive, nor did exempting the receiver from adopting other precautions, which may describe in documents not mentioned herein, regarding the storage and use of the product, for which the receiver is solely responsible.

16.2 Data sources.

ADR = Accord european relatif au transport international des marchandises Dangereuses par Route
RIO= Reglement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord european relatif au transport international des marchandises dangereuses par voie de navigation interieure
AVV= Abfallverzeichnis-Verordnung
ATE Acute toxic estimate

BGI = Berufsgenossenschaftliche Informationen
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration ECB = European Chemicals Bureau
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labeling of Chemicals
IATA =International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL_ lowest- oberved-adverse-effect-level
LGK = Lagerklasse
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL= No oberserved adverse effect level
NOEC = No observed effect concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
STP= Sewage Treatment Plant
TLV®/TWA = Threshold limit value- time-weighted average
TLV®STEL = Threshold limit value - short-time exposure limit
TRGS = Technische Regeln für Gefahrstoffe
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative
VwVwS = Verwaltungsvorschrift wassergefährdende Stoffe