

MATERIAL SAFETY DATA SHEET

According to (EC) No 1272/2008 and Regulation (EU) 2015/830

Date of Issue: 25.08.2017

Revised: 02.06.2017

Solid Compound Unipol® 7012

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

Trade name: **Unipol® 7012**

General chemical description: mixture fatty acids, paraffins, abrasive polishing minerals (tripoli, abrasive minerals, mineral powder)

Usage: polishing compound for metal surfaces

Company identification: OSBORN INTERNATIONAL GMBH
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2. Hazards identification

Special hazards for man and environment according to 67/548/EC as amended

Symbols of danger

Not subject to the regulation

R-phrases: none S-phrases: none

3. Composition/ information on ingredients

3.1 Generally chemical description: mixture fatty acids, paraffins, abrasive polishing minerals (tripoli, abrasive minerals quartz)

constituent :

Quartz CAS: 14808-60-7 EINECS: 238-878-4
tripoli CAS: 1317-95-9

3.2 Comments: Mineral powder (porous microcrystalline silica).

4. FIRST AID MEASURES

4.1 First aid measures description

4.1.1 In case of inhalation:

Move the patient to a well ventilated place. Rinse throat and nose with water to remove dust particles. If coughing or other discomfort persist, seek medical assistance.

4.1.2 In case of skin contact:

Wash the affected area with soap and water and remove soiled clothing.

4.1.3 In case of eye contact:

Wash eyes with plenty of water for 15 minutes. Seek medical attention if irritation persists.

4.1.4 In case of ingestion:

Give water to drink. In the event of ingestion of large amounts of the product, or if there is discomfort, seek medical assistance. Generally no actions are required.

4.2 Major symptoms and effects

Long term inhalation of tripoli dust may cause lung fibrosis, although there is no evidence of the silicosis caused specifically by this crystalline form of silica. After prolonged contact it may crack and irritate the skin and it can irritate the eyes due to mechanical effects. It may induce mild irritation of the gastrointestinal tract if large amounts of the product are ingested.

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4.3 Information about medical attention

Medical attention is required if adverse symptoms are shown or after a long exposure. Treatment should in general be symptomatic and palliative.

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, CO₂, NO_x.
 Particular hazards: Use adequate breathing 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.
 Methods for cleaning /disposal: Remove, send in suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Local extraction 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/ 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: Safety glasses 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

Exposure limit values (Exposure limit values are not additives)

The exposure limit of Tripoli (respirable) was withdrawn in year 2012, the following data on tripoli that contains quartz remains.

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust, respirable crystalline silica dust).

Substance	Limit value type	Limit value	Comments	Source	Year
Tripoli (as quartz)	TLV-TWA	0.1 mg/m ³	USA	ACGIH	2008
Crystalline silica (cristobalite or quartz) (Respirable fraction)	VLA-ED	0.05 mg/m ³	Spain	INSHT	2015
Tripoli (as	VLA	0.1 mg/m ³	Belgium	IFA	2015

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quartz) Trípoli (as quartz)	VLA	0.1 mg/m3**	Canada (Ontario, Quebec)	IFA	2015
Trípoli (as quartz)	VLA-ED	0.1 mg/m3***	Ireland	IFA	2015
Trípoli (as quartz)	VLA-ED	0.2 mg/m3****	New Zeland	IFA	2015
Trípoli (as quartz)	VLA-ED	0.1 mg/m3**	Singapore	IFA	2015
Trípoli (as quartz)	VLA-ED	0.1 mg/m3	South Korea	IFA	2015
Trípoli (as quartz)	VLA-ED	0.05 mg/m3	USA-NIOSH	IFA	2015
Silica, respirable crystalline	VLA-ED	0.1 mg/m3	Australia	IFA	2015
Silica, respirable crystalline	VLA-ED	0.15 mg/m3	Austria	IFA	2015
Silica, respirable crystalline	VLA-ED	0.1 mg/m3	Belgium	IFA	2015
Silica, respirable crystalline	VLA-ED	0.05 mg/m3	Canada-Québec	IFA	2015
Silica, respirable crystalline	VLA-ED	0.05 mg/m3	Denmark	IFA	2015
Silica, respirable crystalline	VLA-ED	0.05 mg/m3	Finland	IFA	2015
Silica, respirable crystalline	VLA-ED	0.1 mg/m3	Ireland	IFA	2015
Silica, respirable crystalline	VLA-ED	0.15 mg/m3**	Switzerland	IFA	2015
Silica, respirable crystalline	VLA-ED	0.0758 mg/m3*****	The Netherlands	IFA	2015
Silica, respirable crystalline	VLA-ED	0.05 mg/m3	USA-NIOSH	IFA	2015

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	solid	Colour:	brown
Odour:	characteristic	Vapour Pressure:	n.a.
Melting Point:	n.a.	pH-value:	n.a.
Boiling Point:	~ 110°C	Flammability:	n.a.
Explosive Properties:	none	Oxidising Properties:	none
Relative Density:	approx. 1,6 g/cm ³ at 20°C	Solubility in water:	non soluble

10. STABILITY AND REACTIVITY

Stable under normal conditions. Hazardous decomposition products: CO, CO₂, No_x. Contact with acids to be avoided.

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11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

The substance is not classified in any category as an 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 is foreseeably 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 breathing difficulties in the event of exposure to large concentrations of the substance.

11.2 Chronic toxicity

Several forms of respirable crystalline silica, including quartz and cristobalite, are considered to be human carcinogens in workplace exposure by IARC (2012). However this consideration excludes Tripoli, for which, although being a microcrystalline form of quartz, there is insufficient evidence. Likewise, silicosis, associated with the exposure to several types of silica, does not seem to occur in workers exposed to Tripoli. The exposure limit set by the ACGIH and INSHT has been withdrawn because of insufficient data on exposure to the isolated substance, although there is evidence of pulmonary fibrosis cases.

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

The product itself is not known to be dangerous to the environment, since silica is an essential mineral component of soils and sediments. 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

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.

Soiled packing must be disposed of in the same way as the product itself.

13.1 Suitable waste treatment/elimination methods

Whenever possible the product, as inert waste, shall be valorised. 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.

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15. REGULATORY INFORMATION

The product does not require a hazard warning label in accordance with the EC directives/German regulations on dangerous substances.

The product is not listed in german VbF (as burning liquid).

16. OTHER INFORMATION

OTHER INFORMATION

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)

16.1 Modifications. Amendment of sections 2 and 3 as a result of the derogation of Directive 1999/45 / EC and the RD 255/2003

16.2 Data sources.

1. IUCLID and ECDIN Databases (European Commission)
2. INSHT. Instituto Nacional de Seguridad e Higiene en el trabajo (2010). *Límites de exposición profesional para Agentes Químicos en España.*
3. IFA. Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung.
4. ACGIH. American Conference of Governmental Industrial Hygienists: 2008 TLVs® and BEIs®. *Threshold Limit Values for Chemical Substances, Physical Agents and Biological Exposure.*
5. IARC (2010) International Agency for Research on Cancer. <http://www.iarc.fr/>
6. NIOSH (National Institute for Occupational Safety and Health).
7. NTP (National Toxicology Program).
8. Hazardous Substances Data Bank (HSDB)
9. eChemportal

16.3 Other information

This document complements the technical instructions on usage, but does not substitute them. 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 exempting the receiver from adopting other precautions, which may be described in documents not mentioned herein, regarding the storage and use of the product, of which the receiver is solely responsible.

ANNEXES: EXPOSURE SCENARIOS ANNEXES ARE NOT PROVIDED BECAUSE THE SUBSTANCE IS EXEMPT FROM REGISTRATION