

**Product name:** Pikal Liquid metal polish  
**Document Nr.:** SDS00153000270

**Date:** October 5<sup>th</sup>, 2022  
**Version:** 2.0 Page 1 of 12

## Section 1: Identification of the substance or mixture and the company

### 1.1. Product Identifier

Name: #53-000270 PIKAL liquid metal polish  
The substances do not require registration according to regulation (EC) N. 1907/2006 (REACH).

### 1.2 Relevant applications of the material and uses advised against

Polishing and cleaning of metals, hard materials, enamels to a mirror finish. Abrasive material.

### 1.3. Company details

Vof Micro to Nano  
Tappersweg 91  
2031ET Haarlem  
Netherlands  
Tel: +31(0)85-2013155  
E: info@microtonano.com

### 1.4 Emergency telephone number

112 (NLD) or your national emergency telephone number for chemical spills, leaks, fires, exposures or accidents

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture according to Regulation EC Nr. 1272/2008

<b>Physical:</b>	Flammable material, H223
<b>Health:</b>	Harmful if inhaled, category 1, H332 Causes skin irritation, category 2, H315 Causes serious eye irritation, category 2, H319 Suspected of causing cancer, H351 May cause damage to organs through prolonged or repeated exposure, H373
<b>Environment:</b>	Not classified
<b>Other hazards:</b>	Repeated exposure may cause skin dryness and cracking, EUH066

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## 2.2 Labeling elements accordance to Regulation EC Nr. 1272/2008

Hazard pictogramm(s):



GHS07



GHS08

Signal word:

**Danger**

Hazard statement(s):

H223: Flammable material  
H315: Causes skin irritation  
H317: May cause an allergic skin reaction  
H319: Causes serious eye irritation  
H373: May cause damage to organs through prolonged or repeated exposures  
H351: Suspected of causing cancer  
EUH066: Repeated exposure may cause skin dryness and cracking

Precautionary statement(s)

Prevention:

P101: If medical advice is needed, have product container or label at hand  
P102: Keep out of reach of children  
P233: Keep container tightly closed  
P261: Avoid breathing dust/fumes/gas/mist/vapour/spray  
P273: Avoid release to the environment  
P280: Wear protective gloves/protective clothing/eye protection/face protection

Response:

P301+P310: If swallowed: Immediately call a poison center/doctor/physician/first aider  
P08+P313: If exposed or concerned: Get medical attention  
P331: Do NOT induce vomiting  
P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical attention  
P302+P352: If on skin: Wash with plenty of water and soap.  
P362+P364: Take of contaminated clothing and wash before reuse

Storage:

P403+P35: Store in a well-ventilated place. Keep cool.  
P405: Store locked up

Disposal:

P501: Dispose of contents/container in accordance with local/regional/national/international regulations

Supplemental hazard info:

None

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**2.3 Other hazards**

Not applicable

**Section 3: Composition / information on components****3.1. Substances**

Name: #53-000270 PIKAL liquid metal polish

**3.2 Mixtures**

Component	CAS Nr.	EC Nr.	WT%
Mineral oil	8042-47-5	232-455-8	10-30
Mineral turpentine	8008-20-6	232-366-4	10-30
Ethylene Glycol	107-21-1	203-473-3	1-5
Aluminium Oxide Al <sub>2</sub> O <sub>3</sub>	1344-28-1	215-691-6	15-25
Xylene	1330-20-7	203-576-3	<1
Water	7732-18-5	231-791-2	1-10

**Section 4: First aid measures****4.1. Description of first aid measures**

Contact with eyes: Rinse cautiously with water for several minutes. If possible, remove contact lenses. Continue rinsing.

Contact with skin: Wash with water and soap.  
Seek medical attention if irritation persists.

Inhalation: Fresh air, keep warm and at rest.  
Seek medical attention if ill effects occur

Ingestion: If swallowed, do not induce vomiting  
Seek immediate medical advice

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## 4.2. Important symptoms and effects, either immediate or delayed

Inhalation:	Inhalation may irritate nose, throat and lungs
Ingestion:	May cause nausea, vomiting, stomach and diarrhea
Skin contact:	Prolonged contact may cause skin irritation
Eye contact:	Irritating to eyes

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

General advice: If you feel unwell, seek medical advice; show product label if possible  
If symptoms persist, always call a doctor

## Section 5: Firefighting Measures

### 5.1. Extinguishing media

Dry foam, carbon dioxide, dry chemical or water spray and sand. Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

Carbon dioxide, carbon monoxide, nitrogen oxide, unburned hydrocarbons

### 5.3 Advice to firefighters

Fight fire from a safe distance, with adequate cover  
Do not move the load if exposed to heat.  
In case of fire; do not breathe fumes  
Wear self-contained breathing apparatus for fire fighting

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment  
Keep unprotected persons away  
Ensure adequate ventilation

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## 6.2 Environmental precautions

Do not allow to enter public sewers and waterways

## 6.3 Methods and material for containment and clean up

Clean up spills immediately  
Avoid breathing vapours  
Control personal contact with the substance, by using protective equipment  
Collect spillage, absorbed spillage and wipes in a flammable waste container  
Wash spill area with soap and water to remove last traces of residue

## 6.4 Reference to other sections

For further information see section 7, 8 and 13.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid breathing dust/mist  
Ensure adequate ventilation  
Avoid using hot materials and fire around working area  
Avoid contact with skin and eyes  
Wash thoroughly after use  
Wear protective gloves/protective clothing/eye protection  
Flammable when heated

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

Store locked up in a cool dry place below 40°C out of direct sun light  
Isolate from ignition source such as heat, sparks, open flame  
Keep container tightly sealed  
Keep out of reach of children

### 7.3 Specific end uses(s)

Not required

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## Section 8: Exposure control and personal protection

### 8.1. Control parameters

#### Occupational exposure limits (OEL)

Ingredient	TWA	STEL
Mineral oil	200mg/m <sup>3</sup>	Not available
Mineral turpentine	200mg/m <sup>3</sup>	Not available
Ethylene Glycol	52mg/m <sup>3</sup>	104mg/m <sup>3</sup>
Aluminium Oxide Al <sub>2</sub> O <sub>3</sub>	Not available	Not available
Xylene	100mg/m <sup>3</sup>	150mg/m <sup>3</sup>
Water	Not available	Not available
PIKAL professional metal polishing paste	Not available	Not available

### 8.2 Exposure controls

Control procedures: Avoid creating dust  
Ensure adequate ventilation  
Only use small amounts  
Wash hands before breaks and at the end of the work  
Maintain appropriate working environment

Personal protection: Protective work clothing  
Inhalation: Use breathing protection with high concentrations  
Hands and skin: Suitable gloves  
Eyes: Wear safety goggles or full-face protection

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## 10.4 Conditions to avoid

Avoid hot surfaces, heating, freezing

## 10.5 Incompatible materials

Strong oxidising agents

## 10.6 Hazardous decomposition products

By heating, petroleum components (kerosene) turn into inflammable vapour

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure:

<b>Inhalation:</b>	May cause damage to lungs, chemical pneumonitis
<b>Skin contact:</b>	May cause irritation
<b>Eye contact:</b>	Irritant, caustic effect
<b>Sensitisation:</b>	No sensitising effects known
<b>CMR effects:</b>	Product should be classified as carcinogenic Germ cell mutagenicity classification criteria not met based on available data Reproductive toxicity classification criteria not met based on available data
<b>STOT-single exposure:</b>	may cause drowsiness or dizziness
<b>STOT- repeated exposure:</b>	may cause skin dryness and cracking
<b>Aspiration hazard:</b>	May be fatal if swallowed and enters airway

#### Toxicological data LD/LD50 values

No information available

#### Symptoms related to physical, chemical and toxicological characteristics

<b>If swallowed:</b>	Discomfort, nausea, diarrhea
<b>If in eyes:</b>	Causes serious eye irritation
<b>If inhaled:</b>	Fatigue, dizziness, narcosis
<b>If on skin:</b>	Repeated exposure may cause skin dryness or cracking

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## 11.2. Endocrine disrupting properties

Not listed

## 11.3. Toxicity

There is no additional information

## Section 12: Ecological information

### 12.1. Aquatic toxicity

Harmful to fish

### 12.2 Persistence and degradability

No further relevant information available

### 12.3 Bio-accumulative potential

No further relevant information available

### 12.4 Mobility in soil

No further relevant information available

### 12.5 Results of PBT and vPvB assessment

No further relevant information available

### 12.6 Hazardous decomposition products

No information available

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## Section 13: Disposal considerations

### 13.1. Waste treatment methods

Product: This material and its container must be disposed of in a safe way.  
Do not discharge into drains or the environment, dispose to an authorised waste collection point.

National regulations: Disposal should be in accordance with local, state or national legislation.

## Section 14: Transport information

### 14.1. UN number

UN-number: N/A

### 14.2 UN proper shipping name

Proper shipping name: N/A

### 14.3 Transport hazard class(es)

Class: N/A  
ADR/RID-Classification code: N/A

### 14.4 Packing group

Packing: N/A

### 14.5 Incompatible materials

ADR/RID- Environmentally hazardous: N/A  
IMDG-Marine pollutant: N/A  
IATA/ICAO-Environmentally hazardous: N/A

### 14.6 Special precautions for user

ADR/RID-Tunnel code: N/A

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IMDG-Ems:	N/A	Contd. of page 10
IATA/ICAO-PAX:	N/A	
IATA/ICAO-CAO:	N/A	

## 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable

## Section 15: Regulatory information

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

No further data available

### 15.2 Chemical safety assessment

No information available

## Section 16: Other information

### RoHS Directive Compliant

This product is fully compliant with the directive 2100/65/EU Annex II (RoHS). It does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's or PBDE's.

### WEEE

This product is not a piece of electrical or electronic equipment, and it therefore not governed by Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)

### Abbreviations:

Asp. Tox	Aspiration hazard
Carc.	Carcinogenicity
Exp.	Exposure
Flam.	Flammable
GHS	Global Harmonised System of Classification of Labelling Chemicals
Irrit.	Irritant
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration

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LD50	Lethal Dose 50%
N/A	Not applicable
N/E	Not estimated
PBT	Persistent Bio-accumulative and Toxic
WEL	Workplace Exposure Limit
Repr.	Reproductive toxicant
RoHS	Restriction of Hazardous Substance
SEM	Scanning Electron Microscope
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity
TCLo	Lowest published toxic concentration
vPvB	very Persistent and very Bio-accumulative
WEEE	Waste Electrical and Electronic Equipment

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**DSD / DPD label elements****Relevant phrases**

- H223: Flammable material
- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation
- H373: May cause damage to organs through prolonged or repeated exposures
- H351: Suspected of causing cancer
- EUH066: Repeated exposure may cause skin dryness and cracking

This product should be stored, handled, and used in accordance with good industrial hygiene practices and in accordance with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe the product from the point of view of safety requirements. It does not guarantee any specific properties.

It is the responsibility of the user to query and verify any information seeming suspect or where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, state, federal and international regulations.

End of document

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