

## PALLARIUM WAND


**MATERIAL SAFETY DATA SHEET**  
 (REACH regulation (EC) no. 1907/2006 - no. 2015/830)
**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE****AND OF THE COMPANY/CORPORATION 1.1. Product identifier**

Product name: PALLARIUM WAND

Product code: 3510.000 / 3510.001

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

Medical device.

Hollow tube 12 cm long containing stripping feed.

**1.3. Information on the supplier of the material safety data sheet**

Company name: AIREL.

Address: 917, rue Marcel Paul - Z.A. des Grands Godets.94500.Champigny-sur-Marne.France.

Phone number: 01 48 82 22 22. Fax: 01 48 82 46 13.

Email address: [office@airel.com](mailto:office@airel.com)<http://www.airel.com>**1.4. Emergency phone number. +33 (0)1 45 42 59 59.**Company/Organisation: INRS / ORFILA <http://www.centres-antipoison.net>.**SECTION 2: HAZARD IDENTIFICATION****2.1. Classification of substance or mixture****In accordance with regulation (EC) no. 1272/2008 and its modifications.**

Skin corrosion, Category 1B (Skin Corr. 1B, H314).

May cause an allergic reaction (EUH208).

This mixture does not present any physical hazard. Refer to recommendations regarding other products found in the room.

This mixture presents no danger to the environment. No damage to the environment is known or predicted under normal use conditions. **2.2.****Labelling elements****In accordance with regulation (EC) no. 1272/2008 and its modifications.**

Hazard diagrams:



GHS05

Warning message:

DANGER

Product identifier:

009-008-00-9 POTASSIUM BIFLUORIDE

Additional labelling:

EUH208 Contains NICKEL. May cause an allergic reaction.

Hazard statements and additional hazard information:

H314 Causes severe skin burns and eye damage.

Precautionary recommendations - Prevention:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

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

Precautionary recommendations - Intervention:

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IN CASE OF SKIN (or hair) : Take off immediately all contained clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.

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P305 + P351 + P338	IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE/doctor/...
P363	Wash contaminated clothing before reuse.
Precautionary recommendations - Disposal:	
P501	Dispose of contents/container to a disposal centre complying with local regulations.

**2.3. Other hazards**

The mixture does not contain "Substances of very high concern" (SVHC) $\geq$  0.1% published by the European Chemicals Agency (ECHA) in accordance with Article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture does not meet the criteria applicable to PBT or vPvB mixtures in accordance with schedule XIII of REACH regulation (EC) no. 1907/2006.

**SECTION 3: COMPOSITION/INFORMATION ON COMPONENTS 3.2.****Mixtures****Composition:**

Identification	(CE) 1272/2008	Note	%
CAS: 7440-22-4 EC: 231-131-3  SILVER		[1]	25 $\leq$ x % < 50
CAS: 7440-50-8 EC: 231-159-6 REACH: 17-2119429821-40  COPPER		[1]	10 $\leq$ x % < 25
INDEX: 009-008-00-9 CAS: 7789-29-9 EC: 232-156-2  POTASSIUM BIFLUORIDE	GHS06, GHS05 Dgr Acute Tox. 3, H301 Skin Corr. 1B, H314		1 $\leq$ x % < 2.5
INDEX: 005-007-00-2 CAS: 10043-35-3 EC: 233-139-2 REACH: 01-2119486683-25  BORIC ACID	GHS08 Dgr Repr. 1B, H360FD	[1] [2] [6]	1 $\leq$ x % < 2.5
INDEX: 028-002-00-7 CAS: 7440-02-0 EC: 231-111-4 REACH: 01-2119438727-29  NICKEL	GHS08, GHS07 Dgr Carc. 2, H351 STOT RE 1, H372 Skin Sens. 1, H317	S [1] [2]	0 $\leq$ x % < 1

**Information on components:**

- [1] Substance with occupational exposure limits.
- [2] Carcinogenic, mutagenic or reprotoxic substance (CMR).
- [6] Substances of very high concern (SVHC).

**SECTION: FIRST AID**

Generally speaking, if in doubt or if symptoms persist, always see a doctor.

NEVER give anything by mouth to an unconscious person.

**4.1. First aid description****In the event of inhalation:**

In the event of an allergic reaction, see a doctor.

**In the event of contact with eyes:**

Laver abondamment avec de l'eau douce et propre durant 15 minutes en maintenant les paupières écartées.

Regardless of the initial state, consult an ophthalmologist about the occurrence and show him/her the label.

If pain, redness or visual impairment arises, consult an ophthalmologist.

**In the event of contact with skin:**

Immediately remove any contaminated or spattered clothing.

Exercise caution as product may remain between skin and clothing, watch, shoes...

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In the event of an allergic reaction, see a doctor.

If the contaminated area is large and/or if skin lesions appear, consult a doctor or transfer patient to a hospital environment.

**If swallowed:**

Do not give anything by mouth.

Immediately consult a doctor and show him/her the label.

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

No data is available.

**4.3. Indication of any immediate medical attention or special treatment needed**

No data is available.

**SECTION 5: FIRE-FIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing agents**

No data is available.

**5.2. Special hazards arising from substance or mixture**

Fire will often produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Do not inhale fumes.

**5.3. Advice for firefighters**

Due to the toxicity of the gas produced during thermal decomposition of the product, handlers must be equipped with self-contained respiratory equipment.

**SECTION 6: MEASURES TO BE TAKEN IN THE EVENT OF ACCIDENTAL RELEASE****6.1. Personal precautions, safety equipment and emergency procedures**

Refer to the protective measures listed in sections 7 and 8.

**For non-rescuers**

Avoid all contact with skin and eyes.

**For rescuers**

Rescuers must wear suitable personal protection equipment (refer to section 8).

**6.2. Environmental precautions**

Prevent entry into drains or waterways.

**6.3. Methods and material for containment and cleanup**

Remove the product through mechanical means (sweeping/vacuum).

**6.4. Reference to other sections**

No data is available.

**SECTION 7: HANDLING AND STORAGE**

Regulations relating to storage premises apply to workshops where the mixture is handled.

**7.1. Precautions for safe handling**

Wash hands after every use.

Remove and wash contaminated clothing before reuse.

Provide safety showers and eye fountains in workshops where the mixture is frequently handled.

**Fire prevention:**

Prohibit access by unauthorized individuals.

**Recommended equipment and procedures:**

For personal protection, refer to section 8.

Observe the precautions stated on the label and workplace safety regulations.

Do not inhale dust.

**Prohibited equipment and procedures:**

Smoking, eating and drinking is prohibited in rooms where the mixture is used.

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

No data is available.

**Packaging**

Always keep in containers of the same material as the original one.

**PALLARIUM WAND****7.3. Special final use(s)** No data available.**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION 8.1. Control parameters****Occupational exposure limits:**

- European Union (2009/161/EU, 2006/15/EC, 2000/39/EC, 98/24/EC)

CAS	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Notes:
7440-22-4	0.1	-	-	-	

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
7440-22-4	0.1 mg/m3	-	-	-	
7440-50-8	0.2 mg/m3	-	-	-	
10043-35-3	2 mg/m3	6 mg/m3	-	-	I
7440-02-0	1.5 mg/m3	-	-	-	I

- Germany - AGW (BAuA - TRGS 900, 21/06/2010):

CAS	VME:	VME:	Excess	Comments
7440-22-4	-	0,1 mg/m3	E 8(II)	DFG, EU
10043-35-3	-	0,5 mg/m3	2 (I)	AGS, Y, 10

- Belgium (Decree of 19/05/2009, 2010) :

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
7440-22-4	0.1 mg/m3	-	-	-	
7440-50-8	1 mg/m3	-	-	-	
7440-02-0	0.1 mg/m3	-	-	-	

- France (INRS - ED984 :2012):

CAS	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP No.:
7440-22-4	-	0.1	-	-	-	-
7440-02-0	-	1	-	-	C3	

- Switzerland (SUVA 2009) :

CAS	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Time:	RSB:
7440-22-4	0,01 i	-	0,02 i	-	-	4x15
7440-50-8	0,1 i	-	0,2 i	-	-	4x15
7440-02-0	0,05 i	-	-	-	-	SB

- United Kingdom / WEL (Workplace exposure limits, EH40/2005, 2007):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
7440-22-4	0.01 mg/m3	-	-	-	
7440-50-8	0.2 mg/m3	-	-	-	
7440-02-0	0.1 mg/m3	-	-	-	

**8.2. Exposure controls****Personal protection measures, such as personal protection equipment**Diagram(s)

showing required personal protection equipment (PPE):



Use clean and properly maintained personal protection equipment.

Store personal protection equipment in a clean place, away from the work area.

Do not eat, drink or smoke during use. Remove and wash contaminated clothing before reuse. Maintain adequate ventilation, particularly in confined areas.

**Eye/face protection** Avoid

contact with eyes.

Before handling powder or releasing dust, a face mask must be worn which complies with NF standard EN166.

Prescription glasses do not constitute protection.

Provide eye fountains in workshops where product is frequently handled.

**PALLARIUM WAND****- Hand protection**

Wear suitable protective gloves in the event of sustained or repeated contact with skin.

Use suitable chemical-resistant protective gloves complying with standard NF EN374. Gloves must be selected according to the application and the duration of use at the workstation.

Protective gloves must be selected according to the workstation: other chemicals that may be handled, physical protection required (cuts, punctures, thermal protection, dexterity required).

Recommended characteristics:

- Impervious gloves complying with NF standard EN374

**- Body protection**

Avoid skin contact.

Wear suitable protective garments.

Suitable types of protective garments:

Wear chemical protection suits against solid chemical products and airborne particles (type 5) complying with NF standard EN13982-1 to prevent skin contact.

Wear suitable protective garments, particularly an apron and boots. These items must be kept in good condition and cleaned after use.

Staff must wear regularly washed work clothing.

Following contact with the product, all soiled body parts must be washed.

**- Respiratory protection**

Avoid dust inhalation.

Type of FFP mask:

Wear a single-use half-mask that filters against dust complying with NF standard EN149.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on the essential physical and chemical properties****General information**

Physical state:

Solid.

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Hollow tube 12 cm long containing stripper feed.

**Important health, safety and environmental information**

pH:

Not applicable.

Flash point:

Not applicable.

Vapour pressure (50°C):

Not applicable.

Density:

> 1

Water solubility:

Insoluble.

**9.2. Other information**

No data is available.

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

No data is available.

**10.2. Chemical stability**

This mixture is stable in the handling and storage conditions recommended in section 7.

**10.3. Possibility of hazardous reactions**

No data is available.

**10.4. Conditions to avoid**

No data is available.

**10.5. Incompatible materials**

No data is available.

**10.6. Hazardous decomposition products**

No data is available.

**PALLARIUM WAND****SECTION 11: TOXICOLOGICAL INFORMATION 11.1.****Information on toxicological effects**

May cause irreversible skin damage, such as visible necrosis through the epidermis and in the dermis, following exposure lasting between three minutes and one hour.

Corrosive reactions are characterised by ulceration, bleeding, bloody sores and, at the end of a 14-day observation period, by discolouration due to skin whitening, hair loss and scarring.

**11.1.1. Substances**

No toxicological information is available for the substances.

**11.1.2. Mixture****Respiratory or skin sensitization:**

Contains at least one sensitizing substance May cause an allergic reaction.

**IARC (International Agency for Research on Cancer) monograph(s):**

CAS 7440-02-0: IARC Group 2B: The agent may be carcinogenic to humans.

**Substance(s) described in an INRS (National Research and Safety Institute) MSDS:**

- Nickel (CAS 7440-02-0): Refer to MSDS no. 68.
- Boric acid (CAS 10043-35-3): Refer to MSDS no. 138.

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity****12.1.2. Mixtures**

No aquatic toxicity information is available for the mixture.

**12.2. Persistence and degradability**

No data is available.

**12.3. Bioaccumulative potential**

No data is available.

**12.4. Mobility in soil**

No data is available.

**12.5. Results of PBT and vPvB evaluations**

No data is available.

**12.6. Other adverse effects**

No data is available.

**German regulations on the classification of water hazards (WGK):**

WGK 2 (VwVwS vom 27/07/2005, KBws): Presents a water hazard.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Appropriate management of the disposal of the mixture and/or its container must be determined in accordance with guideline 2008/98/CE.

**13.1. Waste treatment methods**

Do not flush into drains or waterways. **Waste:**

Waste management must be performed without presenting a risk to human health or the environment, and in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in accordance with current legislation, preferably via a certified collector or company. Do not contaminate ground or water with waste or dispose of them into the environment.

**Contaminated packaging:**

Completely empty container. Keep the label on the container.

Return to a certified disposer.

**SECTION 14: TRANSPORT INFORMATION**

Transport product in accordance with the ADR for road transport, RID for rail, IMDG for sea, and ICAO/IATA for air (ADR 2015 - IMDG 2014 - OACI/IATA 2015).

**14.1. UN**

number3244

## PALLARIUM WAND

**14.2. UN official shipping name**

UN3244=SOLIDS CONTAINING CORROSIVE LIQUID, N.S.A.  
(potassium bifluoride)

**14.3. Transport hazard class**

- Classification:



8

**14.4. Packing group**

II

**14.5. Environmental hazards**

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**14.6. Special precautions to be taken by the user**

ADR/RID	Category	Code	Group	Label	Ident.	QL	Avail.	EQ	Cat.	Tunnel
	8	C10	II	8	80	1 kg	218 274	E2	2	E

IMDG	Category	2ndLabel	Group	QL	FS	Avail.	EQ
	8	-	II	1 kg	F-A,S-B	218 274	E2

IATA	Category	2ndLabel	Group	Passenger	Passenger	Cargo	Cargo	note	EQ
	8	-	II	859	15 kg	863	50 kg	A77	E2
	8	-	II	Y844	5 kg	-	-	A77	E2

For limited quantities of dangerous goods, refer to ADR and IMDG chapter 3.4 and IATA section 2.7. For excepted quantities of dangerous goods, refer to ADR and IMDG chapter 3.5 and IATA section 2.6. **14.7. Bulk shipping in compliance with Schedule II of the Marpol Convention and the IBC Code**

No data is available

**SECTION 15: REGULATORY INFORMATION****15.1. Regulations/legislation specific to the substance or mixture pertaining to safety, health and the environment****- Information on the classification and labelling contained in section 2:**

The following regulations have been taken into consideration:

- Regulation (EC) no. 1272/2008 amended by regulation (EU) no. 487/2013
- Regulation (EC) no. 1272/2008 amended by regulation (EU) no. 758/2013
- Regulation (EC) no. 1272/2008 amended by regulation (EU) no. 944/2013
- Regulation (EC) no. 1272/2008 amended by regulation (EU) no. 605/2014
- Regulation (EC) no. 1272/2008 amended by regulation (EU) no. 1297/2014

**- Information on packaging:**

No data is available.

**Product subject to limits on use: See Schedule XVII of EC Regulation no. 1907/2006.**

Reserved for professional use.

**- Special provisions:**

No data is available.

**- Table of occupational diseases according to the French Labour Code:**

TMP no. Label

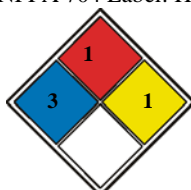
32 Occupational ailments caused by fluoride, hydrofluoric acid or its mineral salts.

**- German regulations on the classification of water hazards (WGK):**

WGK 2 (VwVwS vom 27/07/2005, KBws): Presents a water hazard.

**- American Standard System for the Identification of the Hazards of Materials for Emergency Response (NFPA 704):**

NFPA 704 Label: Health=3 Flammability=1 Instability/Reactivity=1 Specific risk=none



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**15.2. Chemical safety assessment** No data available.

**SECTION 16: OTHER INFORMATION**

As the user's working conditions are beyond our knowledge and control, the information contained in this material safety data sheet is given to the best of our knowledge and on the basis of national and European laws.

The mixture must not be used for purposes other than those specified in section 1 without the prior receipt of written handling instructions.

It is the user's responsibility to take all measures necessary to meet the requirements of local laws and regulations.

The information given in this material safety data sheet must be considered as a description of the safety requirements for this mixture, and not as a guarantee of the mixture's properties.

**Explanations of phrases mentioned in section 3:**

H301	Toxic if swallowed
H314	Causes severe skin burns and serious damage to eyes.
H317	May cause skin allergy.
H351	May cause cancer.
H360FD	May affect fertility. May harm the foetus.
H372	Proven risk of serious effects to organs following repeated or prolonged exposure

**Abbreviations:**

CMR: carcinogenic, mutagenic or reprotoxic.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

WGK: Wassergefährdungsklasse ( Water Hazard Class).

GHS05: Corrosion.

PBT: Persistent, bioaccumulative and toxic.

vPvB: Very persistent and very bioaccumulative.

SVHC: Substance of Very High Concern.

**List of modifications:**

Version A (22/09/2015): overall review of MSDS