



# Safety Data Sheet Plutonium

Revision Date: 7/2/2022

## Section 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Identity

Plutonium

### Unique Formula Identifier

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

Intended Uses and Uses Advised Against

Intended as pigment for permanent tattoos. For professional use only. Do no use internally or in eyes.

### 1.3. Details of the supplier of the safety data sheet

Company Name

Quantum Tattoo Ink LLC  
10429 Burbank Blvd  
North Hollywood , CA 91601

Quantum Tattoo Ink EU B.V  
J.Keplerweg 10 B  
2408 AC Alphen a/d Rijn  
The Netherlands  
info@quantumtattooink.com

### Customer Service:

### 1.4. Emergency telephone number

Emergency

24 hour Emergency Telephone No.

Quantum Tattoo Ink LLC (US) +1323-640-2446  
Quantum Tattoo Ink EU B.V (The Netherlands)  
+31615300580

## Section 2. Hazard identification of the product

### 2.1. Classification of the substance or mixture

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

No applicable CLP categories.

### 2.2. Label elements

According to REGULATION (EU) 2020/878 amending Regulations EU 2015/830 and (EC) No 1907/2006

No applicable CLP categories.

#### [Prevention]

No CLP prevention statements

#### [Response]

No CLP response statements

#### [Storage]

No CLP storage statements

#### [Disposal]

No CLP disposal statements



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## 2.3. Other hazards

This product contains no PBT/vPvB chemicals.

This product contains no endocrine disrupting chemicals.

## Section 3. Composition/information on ingredients

### 3.2. Mixtures

If the product contains substances that present a hazard according to Regulation (EC) No. 1272/2008 [CLP/GHS], they are listed below.

Ingredient/Chemical Designations	Weight %	EC No. 1272/2008 Classification*	Notes
Titanium dioxide CAS Number: 0013463-67-7 EC No. 236-675-5	50 - 75	Not Classified	---
Glycerin CAS Number: 0000056-81-5 EC No. 200-289-5	10 - 25	Not Classified	---
Ethanol CAS Number: 0000064-17-5 EC No. 200-578-6 Index No.: 603-002-00-5	1 - 5	Flam. Liq. 2;H225	---
Iron oxide CAS Number: 0001309-37-1 EC No. 215-168-2	1 - 5	Not Classified	---
Blue pigment CAS Number: 0000147-14-8 EC No. 205-685-1 Index No.:	1 - 5	Combustible Dust	---

<sup>^</sup>CLP 31 Reference EC No. 1272/2008 1.1.3.1. Notes relating to the identification, classification and labelling of substances (Table 3.1).

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

\*PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

## Section 4. First aid measures

### 4.1. Description of first aid measures

#### General

In all cases of doubt, or when symptoms persist, seek medical attention.  
Never give anything by mouth to an unconscious person.

#### Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

#### Eye

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

#### Skin

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

#### Ingestion

If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

#### Overview

Treat symptomatically. Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health



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effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

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

**Notes to physician**      Treat symptomatically.

## Section 5. Fire-fighting measures

#### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.

Unsuitable extinguishing media: Do not use; water jet.

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

Hazardous decomposition: No hazardous decomposition data available.

#### 5.3. Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

## Section 6. Accidental release measures

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

Put on appropriate personal protective equipment (see section 8).

#### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

#### 6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

#### 6.4 Reference to other sections



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See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## Section 7. Handling and storage

### 7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

See section 2 for further details. - [Prevention]

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

Incompatible materials: No data available.

See section 2 for further details. - [Storage]

### 7.3. Specific end use(s)

No data available.

## Section 8. Exposure controls / personal protection

### 8.1. Control parameters

CAS No.	Ingredient	Exposure	
		Source	Value
0000056-81-5	Glycerin	OSHA	TWA 15 mg/m3 (total dust) TWA 5 mg/m3 (resp)
		ACGIH	TWA: 3 mg/m3 (respirable) 10 mg/m3 (mist)
		NIOSH	No established RELs
		National	No Established Limit
0000064-17-5	Ethanol	OSHA	TWA 1000 ppm (1900 mg/m3)
		ACGIH	No Established Limit 1000 ppm STEL
		NIOSH	TWA 1000 ppm (1900 mg/m3)
		National	No Established Limit
0000147-14-8	Blue pigment	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
0001309-37-1	Iron oxide	OSHA	TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp)
		ACGIH	TWA: 5 mg/m3 (dust or fume) STEL 10 mg/m3 (as fume)
		NIOSH	TWA 5 mg/m3
		National	No Established Limit
0013463-67-7	Titanium dioxide	OSHA	TWA 15 mg/m3
		ACGIH	TWA: 10 mg/m3
		NIOSH	Footnote ca
		National	No Established Limit

Contains mineral oil. The exposure limits for oil mist are 5 mg/m3 OSHA PEL and 10 mg/m3 ACGIH.



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## 8.2. Exposure controls

### Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

### Eyes

Protective safety glasses recommended

### Skin

Protective gloves recommended.

### Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

### Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

## Section 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Color:    Physical State: Liquid

#### Odor

Not Provided

#### Odor threshold

Not determined

#### pH

Not Measured

#### Melting point / freezing point

Not Measured

#### Initial boiling point and boiling range

Not Measured

#### Flash Point

Not Measured

#### Evaporation rate (Ether = 1)

Not Measured

#### Flammability (solid, gas)

Not Applicable

#### Upper/lower flammability or explosive limits

**Lower Explosive Limit:** Not Measured

**Upper Explosive Limit:** Not Measured

#### Vapor pressure (Pa)

Not Measured

#### Vapor Density

Not Measured

#### Relative Density

Not Measured

#### Solubility in Water

Not Measured

#### Partition coefficient n-octanol/water (Log Kow)

Not Measured

#### Auto-ignition temperature

Not Measured

#### Decomposition temperature

Not Measured

#### Viscosity (cSt)

Not Measured

### 9.2. Other information

No other relevant information.



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## Section 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

No hazardous decomposition data available.

## Section 11. Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapour LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Glycerin - (56-81-5)	27,200.00, Rat - Category: NA	45,000.00, Guinea Pig - Category: NA	No data available	No data available	No data available
Ethanol - (64-17-5)	10,470.00, Rat - Category: NA	17,100.00, Rabbit - Category: NA	124.70, Rat - Category: NA	No data available	No data available
Blue pigment - (147-14-8)	6,401.00, Rat - Category: NA	> 5,000.00, Rat - Category: NA	No data available	No data available	No data available
Iron oxide - (1309-37-1)	> 5,000.00, Rat - Category: NA	No data available	No data available	No data available	No data available
Titanium dioxide - (13463-67-7)	>25,000.00, Rat - Category: NA	No data available	No data available	6.82, Rat - Category: NA	No data available



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## Carcinogen Data

CAS No.	Ingredient	Source	Value
0000056-81-5	Glycerin	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0000064-17-5	Ethanol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: Yes; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	A3
0000147-14-8	Blue pigment	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0001309-37-1	Iron oxide	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
		ACGIH	A4
0013463-67-7	Titanium dioxide	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;
		ACGIH	A4
Classification		Category	Hazard Description
Acute toxicity (oral)		---	---
Acute toxicity (dermal)		---	---
Acute toxicity (inhalation)		---	---
Skin corrosion/irritation		---	---
Serious eye damage/irritation		---	---
Respiratory sensitization		---	---
Skin sensitization		---	---
Germ cell mutagenicity		---	---
Carcinogenicity		---	---
Reproductive toxicity		---	---
STOT-single exposure		---	---
STOT-repeated exposure		---	---
Aspiration hazard		---	---

### 11.2.1 Endocrine disrupting properties

This product contains no endocrine disrupting chemicals.



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## Section 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l	3hr IC50 Bacteria mg/l	Biodegradability %
Glycerin - (56-81-5)	54,000.00, Oncorhynchus mykiss	1,955.00, Daphnia magna	---	---	Readily biodegradable
Ethanol - (64-17-5)	15,400.00, Lepomis macrochirus	>10,000.00, Daphnia magna	17.921 (96 hr), Ulva pertusa	>1,000.00	89.00
Blue pigment - (147-14-8)	>100.00, Danio rerio	501.00, Daphnia magna	>100.00 (72 hr), Desmodesmus subspicatus	10,001.00	0.99
Iron oxide - (1309-37-1)	---	>100.00, Daphnia magna	---	---	---
Titanium dioxide - (13463-67-7)	294.00, Oryzias latipes	501.00, Daphnia magna	>100.00 (72 hr), Pseudokirchneriella subcapitata	10,001.00	---

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6 Endocrine disrupting properties

This product contains no endocrine disrupting chemicals.

### 12.7. Other adverse effects

No data available.

## Section 13. Disposal considerations

### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

## Section 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Regulated	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable Sub Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air class: Not Applicable Sub Class: Not Applicable





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<b>14.4. Packing group</b>	Not Applicable	Not Applicable	Not Applicable
<b>14.5. Environmental hazards</b>			
<b>IMDG</b>	Marine Pollutant: No;		
<b>14.6. Special precautions for user</b>	Not Applicable		
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not Applicable		

## Section 15. Regulatory information

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

#### EU Legislation

REGULATION (EU) 2020/878 amending Regulations EU 2015/830 and (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).  
REGULATION (EC) 1272/2008 on the classification, labeling and packaging of substances and mixtures (CLP).

#### National Legislation

None noted.

### 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

## Section 16. Other information

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The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H225 Highly flammable liquid and vapor.

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