

## SAFETY DATA SHEET IN ACCORDANCE WITH REGULATION (EU) NO.453/2010 QUANTUM PIGMENT

REVISION DATE: 8/01/2022

REVISION NUMBER: 8.1.2



We hereby certify that this product complies with EU regulation (EU) 2020/2081 on tattoos and permanent make up, based on EU Regulation (EC) 1907/2006 and (EC) 528/2012 in combination with (EC) 1223/2009.

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 PRODUCT IDENTIFIER

**TRADE NAME**

ENERGY

**LOT.**

T2108006

**MFD.**

08/2021



08/2023



#### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

**Product use:** Mixture for use in tattoos or permanent makeup

[UK] Mixture for use in tattoos or permanent makeup  
 [IR] Mixture for use in tattoos or permanent makeup  
 [ES] Mezcla para uso en tatuajes o maquillaje permanente  
 [PL] Mieszanina do stosowania w tatuażach lub makijażu permanentnym  
 [DE] Gemisch zur Verwendung in Tätowierungen oder Permanent-Make-up  
 [CZ] Směs pro použití na tetování nebo permanentní make-up  
 [FR] Mélange à utiliser dans les tatouages ou le maquillage permanent  
 [EE] Segu kasutamiseks tätoveeringute või püsimeigi jaoks  
 [SK] Zmes na použitie pri tetovaní alebo permanentnom make-upe  
 [BG] Смес за използване в татуировки или перманентен грим  
 [DK] Blanding til brug i tatoveringer eller permanent makeup  
 [SE] Blandning för användning i tatueringar eller permanent makeup  
 [NL] Mengsel voor gebruik bij tatoeages of permanente make-up  
 [RO] Amestec pentru utilizare în tatuaje sau machiaj permanent  
 [GR] Μείγμα για χρήση σε τατουάζ ή μόνιμο μακιγιάζ  
 [IT] Miscela per tatuaggi o trucco permanente  
 [PT] Mistura para uso em tatuagem ou maquiagem permanente

[HU] Tetováláshoz vagy tartós sminkhez használható keverék  
 [AT] Gemisch zur Verwendung in Tätowierungen oder Permanent-Make-up  
 [CH-de] Gemisch zur Verwendung in Tätowierungen oder Permanent-Make-up  
 [CH-fr] Mélange à utiliser dans les tatouages ou le maquillage permanent  
 [CH-it] Miscela per tatuaggi o trucco permanente  
 [FE] Seos käytettäväksi tatuoinneissa tai pysyvässä meikissä  
 [NO] En blanding for bruk i tatoveringer eller permanent makeup  
 [NO-eng] Mixture for use in tattoos or permanent makeup  
 [HR] Mješavina za korištenje u tetovažama ili trajnoj šminki  
 [LV] Maisījums lietošanai tetovējumos vai permanentajā grīmā  
 [LT] Mišinys, skirtas naudoti tatuiruotėms ar permanentiniam makiažui  
 [SI] Mešanica za uporabo pri tetovažah ali trajnem ličenju  
 [LU-de] Gemisch zur Verwendung in Tätowierungen oder Permanent-Make-up  
 [LU-fr] Mélange à utiliser dans les tatouages ou le maquillage permanent  
 [MT-en] Mixture for use in tattoos or permanent makeup  
 [MT-mt] Tahlita għall-użu fit-tatwaġġi jew għamla permanenti  
 [LI] Gemisch zur Verwendung in Tätowierungen oder Permanent-Make-up

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Identification of the company:** QUANTUM Filip Drazkiewicz

**Address:** Aleja Jana Chrystiana Szucha 3/600-580 Warsaw, Poland

**Phone:** +48 502196912 **E-mail:** biuro@quantumpmu.com

**Information about the substance/mixture:** www.quantumpmu.com

**Emergency call number :** +48 502 196 912 (available only during office hours)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

**According to Regulation 1272/2008/EC**

The product is not classified as hazardous according to regulation (EC) 1272-2008 (CLP) and subsequent amendments.

#### 2.2 LABEL ELEMENTS

**According to Regulation 1272/2008/EC**

The product is not classified as hazardous according to regulation (EC) 1272-2008 (CLP) and subsequent amendments.

#### 2.3 OTHER HAZARDS

Risk of dust explosion.

# SAFETY DATA SHEET IN ACCORDANCE WITH REGULATION (EU) NO.453/2010

## QUANTUM PIGMENT

REVISION DATE: 8/01/2022

REVISION NUMBER: 8.1.2

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NUMBER	EC NUMBER	CHEMICAL NAME	CONC. %
107-88-0	203-529-7	Butane-1,3-diol	28-33 %
56-81-5	200-289-5	Propane-1,2,3-triol	22-27 %
12227-89-3	235-442-5	CI 77499	20-25 %
51274-00-1	257-098-5	CI 77492	10-15 %
1309-37-1	215-168-2	CI 77491	3-8 %
6920-22-5	230-029-6	Hexane-1,2,-diol	0,5-2 %

[UK] Does not contain nickel  
[IR] Does not contain nickel  
[ES] No contiene níquel  
[PL] Nie zawiera niklu  
[DE] Enthält kein Nickel  
[CZ] Neobsahuje nikl  
[FR] Ne contient pas de nickel  
[EE] Ei sisaldab niklit  
[SK] Neobsahuje nikel

[BG] Не съдържа никел  
[DK] Indeholder ikke nikkel  
[SE] Innehåller inget nickel  
[NL] Bevat geen nikkel  
[RO] Nu conține nichel  
[GR] Δεν περιέχει νικέλιο  
[IT] Non contiene nichel  
[PT] Não contém níquel  
[HU] Nikkelt nem tartalmaz

[AT] Enthält kein Nickel  
[CH-de] Enthält kein Nickel  
[CH-fr] Ne contient pas de nickel  
[CH-it] Non contiene nichel  
[FI-fi] Ei sisällä nikkeliä  
[FI-se] Innehåller inget nickel  
[NO] Inneholder ikke nikkel  
[NO-eng] - Does not contain nickel  
[HR] Ne sadrži nikal

[LV] Nesatur niķeli  
[LT] Sudėtyje nėra nikelio  
[SI] Ne vsebuje niklja  
[LU-de] Enthält kein Nickel  
[LU-fr] Ne contient pas de nickel  
[MT-en] Does not contain nickel  
[MT-mt] Ma fihx nikil  
[LI] Enthält kein Nickel

### SECTION 4: FIRST AID MEASURES

#### 4.1 DESCRIPTION OF FIRST AID MEASURES

**General information:** get medical advice/ attention if you feel unwell.

**After inhalation:** if inhaled, remove to fresh air.

**After contact with skin:** wash with soap and water. In case of irritation, seek medical advice.

**After contact with eyes:** irrigate copiously with water. If symptoms persist, consult ophthalmologist.

**After ingestion:** no special measure.

#### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

**Symptoms:** no symptoms known currently.

**Hazards:** no hazards known at this time.

#### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

**Treatment:** treat symptomatically.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 EXTINGUISHING MEDIA SUITABLE EXTINGUISHING MEDIA

**Suitable extinguishing media:** water spray jet, foam.

**Extinguishing media that must not be used for safety reasons:** high volume water jet, carbon dioxide (CO<sub>2</sub>), dry powder.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

**In case of fires, hazardous combustion gases are formed:** carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>).

#### 5.3 ADVICE FOR FIREFIGHTERS

**Special protective equipment for firefighting:** self-contained breathing apparatus firefighting.

**Further information:** wear suitable protective equipment.

# SAFETY DATA SHEET IN ACCORDANCE WITH REGULATION (EU) NO.453/2010

## QUANTUM PIGMENT

REVISION DATE: 8/01/2022

REVISION NUMBER: 8.1.2

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear suitable protective equipment.  
Avoid dust formation.  
Keep away sources of ignition.

#### 6.2 ENVIRONMENTAL PRECAUTIONS

The product should not be allowed to enter drains, water courses or the soil.

#### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Avoid dust formation.  
Take measures to prevent the build up of electrostatic charge.  
Use mechanical handling equipment.  
Treat recovered material as described in the section "Disposal considerations".

#### 6.4 REFERENCE TO OTHER SECTIONS ADDITIONAL INFORMATION

**Additional information:**

keep away sources of ignition, stop running engines, no smoking.  
Moisten spilled material with water, cover with wet sand or wetted binder, then take up.  
For disposal considerations see section 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

Keep container tightly closed.  
Avoid contact with skin and eyes. Avoid inhalation of vapour, spray or mist.  
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.  
Put on appropriate personal protective equipment (see Section 8).  
Never use pressure to empty. Container is not a pressure vessel.  
Always keep in containers made from the same material as the original one.  
Comply with the health and safety at work laws.

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in accordance with local regulations.  
Notes on joint storage  
Keep away from: oxidising agents, strong alkalis, strong acids.  
Additional information on storage conditions  
Store in a dry, cool and well-ventilated area.  
Keep container tightly closed.  
No smoking.  
Prevent unauthorised access.  
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### 7.3 SPECIFIC END USE(S)

No further recommendations.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETERS SUITABLE EXTINGUISHING MEDIA

**Occupational exposure limits:** no exposure limit value known.

#### 8.2 EXPOSURE CONTROLS

**Respiratory protection:** wear mask.  
**Hand protection:** wear appropriate gloves.  
**Eye/face protection:** wear protective goggles.  
**Skin and body protection:** wear safety clothing.

# SAFETY DATA SHEET IN ACCORDANCE WITH REGULATION (EU) NO.453/2010

## QUANTUM PIGMENT

REVISION DATE: 8/01/2022

REVISION NUMBER: 8.1.2

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** liquid

**Odor:** none

**pH:** 5-8 [50g/l water, 68°F (20°C)]

**Melting point/Range:** 20°C (90%)

**Boiling point/Range:** 171°C

**Flash point:** 160°C (90%) [ASTM D93]

**Flammability (solid, gas):** not applicable

**Evaporation rate:** not applicable

**Upper/Lower explosion limit:** not applicable

**Vapour pressure:** 0.0025 mmHg (at 50°C)

**Water solubility:** 10% Insoluble

**Density:** 1.4-1.5 g/cm<sup>3</sup> @ 20°C [KS M ISO 2811-1:2007]

**Partition coefficient (noctanol/water):** not determined

**Viscosity:** > 15,000 cP (25°C) , Spindle No.4, 5rpm [KS M ISO2555:2007]

#### 9.2 OTHER INFORMATION

No additional information.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 REACTIVITY

Stable at normal ambient temperature and pressure.

#### 10.2 CHEMICAL STABILITY

Stable.

#### 10.3 SPECIFIC END USE(S)

Reactions with alkali metals.

Risk of dust explosion.

#### 10.4 SPECIFIC END USE(S)

Keep away from heat.

Keep away from flames and sparks.

#### 10.5 INCOMPATIBLE MATERIALS

Strong oxidizing agents.

# SAFETY DATA SHEET IN ACCORDANCE WITH REGULATION (EU) NO.453/2010

## QUANTUM PIGMENT

REVISION DATE: 8/01/2022

REVISION NUMBER: 8.1.2

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

**Acute oral toxicity:** no data available.

**Acute dermal toxicity:** no data available.

**Acute inhalation toxicity:** no data available.

**Irritant effect on skin:** no data available.

**Sensitization:** no data available.

**Repeated dose toxicity:** no data available.

**Genetic toxicity in vitro:** no data available.

**Assessment of mutagenicity:** no data available.

**Assessment of carcinogenicity:**

**IARC:** no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGH:** no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by ACGH.

**NTP:** no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** no component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Developmental toxicity/teratogenicity:** no known significant effects or critical hazards.

**Toxicity to reproduction/fertility:** no known significant effects or critical hazards.

**Assessment of toxicity to reproduction:** no data available.

**Assessment of teratogenicity:** no data available.

**Specific target organ toxicity:** no data available.

**Aspiration hazard:** no known significant effects or critical hazards.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 TOXICITY

No data available.

#### 12.2 PERSISTENCE AND DEGRADABILITY

No data available.

#### 12.3 BIOACCUMULATIVE POTENTIAL

No data available.

#### 12.4 MOBILITY IN SOIL

No data available.

#### 12.5 SOIL/WATER PARTITION COEFFICIENT (KOC)

No data available.

#### 12.6 OTHER ADVERSE EFFECTS

No known significant effects or critical hazards.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 WASTE TREATMENT METHODS

**Disposal methods:** recover and reclaim or recycle, if practical. Contact specialist disposal companies. Dispose of waste and residues in accordance with local authority requirements.

# SAFETY DATA SHEET IN ACCORDANCE WITH REGULATION (EU) NO.453/2010

## QUANTUM PIGMENT

REVISION DATE: 8/01/2022

REVISION NUMBER: 8.1.2

### SECTION 14: TRANSPORT INFORMATION

**UN No.:** -

**DOT Classification:** not regulated.

**IMDG Class:** not regulated.

**IATA-DGR Class:** not regulated.

**Packing group:** -

### SECTION 15: REGULATORY INFORMATION

#### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

**Other regulations:** Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

#### 15.2 CHEMICAL SAFETY ASSESSMENT

A Chemical Safety Assessment has been carried out for this substance

### SECTION 16: OTHER INFORMATION

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. The Quantum makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of The Quantum's products for its particular application. Nothing included in this information waives any of The Quantum's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing the Quantum products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Filip Drazkiewicz .

**SAFETY DATA SHEET IN ACCORDANCE WITH REGULATION (EU) NO.453/2010****QUANTUM PIGMENT**

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**CERTIFICATE OF ANALYSIS**

DESCRIPTION OF SAMPLES	QUANTUM ENERGY
LOT NO.	T2108006
DATE OF ANALYSIS	23 Aug, 2021
<b>ITEM</b>	<b>RESULTS</b>
DESCRIPTION	PANTONE 7533C and clear viscous liquid
SPECIFIC GRAVITY (20/20°C)	1.4 – 1.5g/cm <sup>3</sup> [KS M ISO 2811-1:2007]
IDENTIFICATION	PASSED
ACIDITY OR ALKALINITY	NEUTRAL
ODOR	ODORLESS
OIL ABSORPTION	50 ± 5 %
WATER SOLUBLE MATTER	≤ 1.0 %
MOISTURE	≤ 1.0 %
PH VALUE	5 – 8
VISCOSITY	> 15,000 cP (25°C) , Spindle No.4, 5rpm [KS M ISO 2555:2007]

SUBSTANCE NAME	EC No	CAS No	CONCENTRATION LIMIT (BY WEIGHT)	LIMIT OF QUANTIFICATION PPM	ANALYSIS METHOD	CONFORMITY
MERCURY	231-106-7	7439-97-6	0,00005 %	ND	EN 71-3:2019	PASS
NICKEL	231-111-4	7440-02-0	0,0005 %	ND	EN 71-3:2019	PASS
ORGANOMETALLIC TIN	231-141-8	7440-31-5	0,00005 %	ND	EN 71-3:2019	PASS
ANTIMONY	231-146-5	7440-36-0	0,00005 %	ND	EN 71-3:2019	PASS
ARSENIC	231-148-6	7440-38-2	0,00005 %	ND	EN 71-3:2019	PASS
BARIUM	231-149-1	7440-39-3	0,05 %	ND	EN 71-3:2019	PASS
CADMIUM	231-152-8	7440-43-9	0,00005 %	ND	EN 71-3:2019	PASS
CHROMIUM	231-157-5	7440-47-3	0,00005 %	ND	EN 71-3:2019	PASS
COBALT	231-158-0	744-48-4	0,00005 %	ND	EN 71-3:2019	PASS
COPPER	231-159-6	7440-50-8	0,025 %	ND	EN 71-3:2019	PASS
ZINC	231-175-3	7440-66-6	0,02 %	ND	EN 71-3:2019	PASS
LEAD	231-100-4	7439-92-1	0,00007 %	ND	EN 71-3:2019	PASS
SELENIUM	231-957-4	7782-49-2	0,0002 %	ND	EN 71-3:2019	PASS
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)	-	-	0,00005 % (INDIVIDUAL CONCENTRATIONS)	ND	IEC 62321 10:2020	PASS
SELENIUM	231-957-4	7782-49-2	0,0002 %	ND	EN 71-3:2019	PASS

ND = NOT DETECTED

**SHELF LIFE:** two years, providing it is stored in dry, clean, opaque sealed containers at room temperature (1 – 30°C). For storage conditions, see MSDS.