

**VERSAL YELLOW E5GS 110**

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Revision: 2

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name: VERSAL YELLOW E5GS 110  
EC number: 939-379-0  
REACH registration number: see section 3

**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant identified uses**

Organic pigment for industrial process

**1.2.2 Uses advised against**

Tattoo inks

**1.3 Details of the supplier of the safety data sheet**

Synthesia, a.s.  
Semtín 103  
530 02 Pardubice  
Czech Republic

Telephone: + 420 466 821 111  
Fax: + 420 466 821 020  
E-mail: [synthesia@synthesia.eu](mailto:synthesia@synthesia.eu)

**E-mail address of competent person:** [sds@synthesia.cz](mailto:sds@synthesia.cz)

Ecological and Toxicological Association of Dyes and Organic Pigments Manufacturers (ETAD)

**1.4 Emergency telephone number****Manufacturer:**

Telephone: +420 466 824 402  
Fax: +420 466 824 448

**Poison Center:**

Toxikologické informační středisko, Na Bojišti 1, 120 00 Praha 2, Czech Republic  
Telephone: +420 224 919 293, +420 224 915 402

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

The product does not meet the criteria for classification as hazardous according to Regulation (EC) No 1272/2008.

**2.2 Label elements**

The product does not meet the criteria for classification as hazardous according to Regulation (EC) No 1272/2008.

**Supplemental hazard information:**

Contains residual melamine. (SVHC)

**2.3 Other hazards**

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Dust/air mixture can be explosive.

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

### SECTION 3: Composition/information on ingredients

AZOPIGMENT

#### 3.1 Substances

Chemical name			
Index number CAS number EC number REACH registration number	Content [wt. %]	Classification according to Regulation (EC) No 1272/2008	Specific concentration limit, multiplying factor, acute toxicity estimate
Pigment Yellow 150			
- - 939-379-0 01-2119970317-33-XXXX	≥ 99		

#### 3.2 Mixtures

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#### Particle characteristics:

Name of (set of) nanoform(s)		Pigment Yellow 150
		Value
Number based particle size distribution [nm]	d10	17
	d50	27
	d90	45
Shape and aspect ratio of particles		Platelets (1.3 - 2.1)
Crystallinity		crystalline
Surface functionalisation/treatment	agent(s)	irrelevant
	process	irrelevant
Specific surface area [m <sup>2</sup> /g]		63.5 - 130.2
Additional information		irrelevant

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Do not breathe dust.

Avoid contact with skin and eyes.

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

If you feel unwell, seek medical advice.

##### 4.1.1 Following inhalation

In case of accident by inhalation: Remove casualty to fresh air and keep at rest

##### 4.1.2 Following skin contact

Avoid contact with skin. Wash the contaminated parts with plenty of water.

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**4.1.3 Following eye contact**

Avoid contact with eyes. If eye contaminated, rinse it out with water, ask for medical help.

**4.1.4 Following ingestion**

Do not induce vomiting!

If swallowed, rinse mouth with water (only if the person is conscious).

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

Repeated or prolonged inhalation of dust may cause irritation of the respiratory tract. The product contains nickel compound.

**4.3 Indication of any immediate medical attention and special treatment needed**

There are no specific antidotes.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

Water-fog, dry chemicals, foam.

**5.1.2 Unsuitable extinguishing media**

Full water jet, CO<sub>2</sub>.

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

Toxic and irritable gases may be formed in the case of burning.

**5.3 Advice for firefighters**

Self-contained breathing apparatus

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel**

In case of insufficient ventilation, wear suitable respiratory equipment.

**6.1.2 For emergency responders**

Use always personal protective equipment when removing of spilled material: goggles, gloves, respirator in case of dust scatter.

**6.2 Environmental precautions**

Avoid release to the environment.

Avoid creating dusty conditions.

**6.3 Methods and material for containment and cleaning up**

Product sweep up and deposit in suitable containers for deposition. Rinse the rest away with water. Incineration, disposal, according local regulations.

**6.4 Reference to other sections**

See section 8 for information on appropriate personal protective equipment. See section 13 for further information on waste management.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

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Do not breathe dust.  
Avoid contact with skin and eyes.  
When using, do not eat, drink or smoke.  
Avoid release to environment.

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

Keep away from sources of ignitions. Do not smoke.  
Product should be stored in original containers under normal conditions.  
Keep away from food, drink and animal feedstuffs.  
Avoid creating dusty conditions.

**7.3 Specific end use(s)**

Not applicable.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

**Occupational exposure limit values:**  
not determined

**DNEL:**  
Pigment Yellow 150:  
Workers - inhalation, long-term effects - 58.7 mg/m<sup>3</sup>  
Workers, dermal, long-term effects - 8.33 mg/kg bw/day

**PNEC:**  
Pigment Yellow 150:  
STP - 31,5 mg/l

**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Avoid inhalation of dust.

**8.2.2 Individual protection measures, such as personal protective equipment**

All personal protective equipment must be kept in usable condition. Damaged or contaminated equipment must be immediately replaced.

Respiratory protection:	respirator or half mask with dust filter (recommended filter P2 / FFP2)
Hand protection:	protective gloves (EN 374)
Eye/face protection:	protective goggles (EN 166)
Body protection:	protective suit
Thermal hazards:	irrelevant

**8.2.3 Environmental exposure controls**

Do not empty into drains.

**8.3 Other information**

This product is classified as non-hazardous. However the usual precautions for handling chemicals must be observed to avoid contact with the skin, eyes and respiratory tract.  
When using do not eat, drink, or smoke.

**SECTION 9: Physical and chemical properties**

**VERSAL YELLOW E5GS 110****9.1 Information on basic physical and chemical properties**

Physical state:	solid
Colour:	yellow
Odour:	odourless
Melting point/freezing point:	not available
Boiling point:	not available
Flammability:	Like other organic dust can combine with air form explosive mixtures
Lower explosion limit:	not available
Upper explosion limit:	not available
Flash point:	not available
Auto-ignition temperature:	not available
Decomposition temperature:	not available
pH:	not available
Kinematic viscosity:	not available
Solubility:	not available
Solubility in water:	0,08 mg/l (20°C, pH 6,2)
Partition coefficient n-octanol/water:	- 2,63 (vypočteno)
Vapour pressure:	not available
Density or relative density:	0,385 kg/l (20°C)
Relative vapour density:	not available
Particle characteristics:	see section 3

**9.2 Other information**

no information available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Product is stable under normal conditions.

**10.2 Chemical stability**

This product is stable under normal storage conditions

The acidic medium can lead to release of nickel compounds which may be carcinogenic.

**10.3 Possibility of hazardous reactions**

See information in sections 2 and 9.

The acidic medium can lead to release of nickel compounds which may be carcinogenic.

**10.4 Conditions to avoid**

Thermal decomposition &gt; 200 °C

**10.5 Incompatible materials**

Oxidizing and reduction agents.

**10.6 Hazardous decomposition products**

Burning can produce oxides of carbon and nitrogen and nickel compounds

**10.7 Other information**

None.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity:**

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LD<sub>50</sub>, oral, rat (mg/kg): > 5 000  
LD<sub>50</sub>, dermal, rat or rabbit (mg/kg): no data available

LC<sub>50</sub>, inhalation, rat (aerosol or particle) (mg/m<sup>3</sup>): > 5 000

**Skin corrosion/irritation:**

Not irritating (rabbit).

**Serious eye damage/irritation:**

Eyes irritation/rabbit: non irritant

**Respiratory or skin sensitisation:**

Not sensitising.

**Germ cell mutagenicity:**

Not mutagenic.

**Carcinogenicity:**

Based on available data, the classification criteria are not met.

**Reproductive toxicity:**

Based on available data, the classification criteria are not met.

**STOT-single exposure:**

based on available data, the classification criteria do not meet

**STOT-repeated exposure:**

NOAEL (oral, rat): > 1 000 mg/kg bw/day

**Aspiration hazard:**

no data available

**Symptoms related to the physical, chemical and toxicological characteristics**

Other data not available.

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

They are not known.

**11.2.2 Other information**

They are not known.

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**SECTION 12: Ecological information****12.1 Toxicity****12.1.1 Acute (short-term) aquatic toxicity**

LC<sub>50</sub>, 96 h, fish (mg/l): > 1000

EC<sub>50</sub>, 48 h, crustacea (mg/l): > 100

EC<sub>50</sub>, 72 h, algae (mg/l): > 100

**12.1.2 Chronic (long-term) aquatic toxicity**

no data available

**12.1.3 Toxicity for other organisms**

no data available

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**12.2 Persistence and degradability**

Not Readily Biodegradable  
0% in 28 days  
COD: no data available  
BOD5: no data are available

**12.3 Bioaccumulative potential**

Bioaccumulation is not expected ( $\log Pow < 1$ ).

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

Substance does not meet the criteria for PBT or vPvB.

**12.6 Endocrine disrupting properties**

They are not known.

**12.7 Other adverse effects**

They are not known.

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods****13.1.1 Product disposal**

Incineration, disposal, according local regulations.  
Residues as well as rinse water must not be discharged into the ground, public sewers, or near water sources and streams.

**13.1.2 Packaging disposal**

Contaminated empty containers must be disposed of as chemical waste.

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**SECTION 14: Transport information**

No Dangerous Goods

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006  
Regulation (EC) No. 1272/2008  
WGK 1: slightly water endangering (Classification from manufacturer)

**15.2 Chemical safety assessment**

Chemical safety assessment has been carried out for this substance.

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**SECTION 16: Other informationn****Indication of changes:**

General update.  
Section 3 - information on ingredients.  
Section 9, 11, 12 - supplementation of data.

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**List of abbreviations:**

CAS - Chemical Abstracts Service  
EC number - EINECS (European Inventory of Existing Commercial Chemical Substance), ELINCS (European List of Notified Chemical Substances) or NLP (No-Longer-Polymers)  
LD50 - lethal dose, 50%  
LC50 - lethal concentration, 50%  
EC50 - effective concentration, 50%  
IC50 - inhibitory concentration, 50%  
PBT - persistent, bioaccumulative and toxic  
vPvB - very persistent and very bioaccumulative  
BCF - bioconcentration factor  
COD - chemical oxygen demand  
BOD - biochemical oxygen demand  
DNEL - derived no-effect level  
PNEC - predicted no-effect concentration  
NOAEL - no observed adverse effect level  
NOAEC - no observed adverse effect concentration  
NOEC - no observed effect concentration  
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
IMDG - International Maritime Dangerous Goods  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IATA - International Air Transport Association

**Key literature references and sources for data:**

National legislation, chemical databases and tables.  
Chemical safety report.

**Relevant information for classification of the product:**

Applying the conventional method.

**Relevant hazard statements:**

SVHC Contains residual melamine.

**Training advice:**

In compliance with safety data sheet.

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*The above information corresponds to the current level of our knowledge and experience. The data merely describe the product with respect to safety and cannot be construed as guaranteed parameters. The user is responsible for handling in compliance with the existing laws and regulations.*