

VERSAL RED 4BP 01

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

Trade name: VERSAL RED 4BP 01

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

E-mail address of competent person: 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.

2.3 Other hazards

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

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AZOPIGMENT; Ca-SALT

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 Red 57:1			
- 5281-04-9 226-109-5 01-2119473978-15-XXXX			

3.2 Mixtures

-

Particle characteristics:

Name of (set of) nanoform(s)	Pigment Red 57:1	
		Value
Number based particle size distribution [nm]	d10	22
	d50	46
	d90	81
Shape and aspect ratio of particles	Elongated (3.2 - 5.0), Platelets (1.5 - 2.5)	
Crystallinity	crystalline	
Surface functionalisation/treatment	agent(s)	irrelevant
	process	irrelevant
Specific surface area [m ² /g]	56.8 - 96.5	
Additional information	irrelevant	

SECTION 4: First aid measures

4.1 Description of first aid measures

- Do not breathe dust.
- In case of accident by inhalation: remove casualty to fresh air and keep at rest.
- Avoid contact with skin and eyes.
- If you feel unwell, seek medical advice.
- In case of contact with eyes, rinse immediately with plenty of water.

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.

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

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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

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Not specified.

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, CO₂.

5.2 Special hazards arising from the substance or mixture

When burning may produce oxides of carbon, nitrogen and sulphur.

5.3 Advice for firefighters

Self-contained breathing apparatus

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.

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

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

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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 Red 57:1:

Workers - inhalation, long-term effects - 4,4 mg/m³

Workers - dermal, long-term effects - 1 mg/kg bw/day

General population, inhalation, long-term effects - 1,1 mg/m³

General population, dermal, long-term effects - 0,36 mg/kg bw/day

General population, oral, long-term effects - 0,63 mg/kg bw/day

PNEC:

Pigment Red 57:1:

Sediment (freshwater) - 10 mg/l

Sediment (marine water) - 1 mg/l

Soil - 10 mg/kg

STP - 10 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

Hand protection: protective gloves

Eye/face protection: protective goggles

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 RED 4BP 01**9.1 Information on basic physical and chemical properties**

Physical state:	solid
Colour:	red
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:	insoluble
Partition coefficient n-octanol/water:	log Pow = 0,65 (23 °C)
Vapour pressure:	not available
Density or relative density:	1,5-1,7
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

10.3 Possibility of hazardous reactions

See information in sections 2 and 9.

10.4 Conditions to avoid

Thermal decomposition > 200 °C

10.5 Incompatible materials

Oxidizing and reduction agents.

10.6 Hazardous decomposition products

Burning can produce oxides of carbon, nitrogen and sulphur AND COMPOUNDS OF: CALCIUM

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:**LD₅₀, oral, rat (mg/kg): > 2 000LD₅₀, dermal, rat or rabbit (mg/kg): > 2 000

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LC₅₀, inhalation, rat (aerosol or particle) (mg/m³): no data available

Skin corrosion/irritation:

Not irritating (rabbit).

Serious eye damage/irritation:

not irritating (rabbit)

Respiratory or skin sensitisation:

not sensitising

Germ cell mutagenicity:

no data available

Carcinogenicity:

Not carcinogenic.

Reproductive toxicity:

no data available

STOT-single exposure:

no data available

STOT-repeated exposure:

no data available

Aspiration hazard:

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

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.

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

LC₅₀, 96 h, fish (mg/l): > 100

EC₅₀, 48 h, crustacea (mg/l): > 100

EC₅₀, 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

12.2 Persistence and degradability

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(BOD5:COD).100
DEGREE OF ELIMINATION: ca. 25%
COD: 102,8 mg O/g
BOD5: 27,2 mg O/g

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

They are not known.

12.7 Other adverse effects

They are not known.

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 hazardous chemical waste.

SECTION 14: Transport information

No Dangerous Goods

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

The mixture contains ingredient for which a chemical safety assessment has been carried out.

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

General update.

Section 3 - information on ingredients.

List of abbreviations:

CAS - Chemical Abstracts Service

EC number - EINECS (European Inventory of Existing Commercial Chemical Substance), ELINCS (European List of

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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 - International Civil Aviation Organisation

IATA - International Air Transport Association

Key literature references and sources for data:

National legislation, chemical databases and tables.

Relevant information for classification of the product:

ECHA - registered substances.

ECHA - notified substances.

Training advice:

In compliance with safety data sheet.

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.