



Screen Decoating Solution

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.01.2023 Version number 39 Revision: 12.01.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name VARIOSTRIP 5228

DECOATING CONCENTRATE 1:25/30

· Article number: 0002-5228

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

No further relevant information available.

· **Application of the substance / the mixture** Coating material

· 1.3 Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

Intaglio Printmaker Ltd

9 Playhouse Court

62 Southwark Bridge Road

London

SE10AT

Email: info@intaglioprintmaker.com

Phone: 02079282633

· **Informing department:** Laboratory

· 1.4 Emergency telephone number:

02079282633

Monday to Friday 10am-6pm / Saturday 11am-4pm

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

STOT RE 2 H373 May cause damage to the thyroid through prolonged or repeated exposure.

· 2.2 Label elements

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



· **Signal word** *Danger*

Hazard-determining components of labelling:

sodium periodate

SULPHURIC ACID

· **Hazard statements**

H314 Causes severe skin burns and eye damage.

H373 May cause damage to the thyroid through prolonged or repeated exposure.

· **Precautionary statements**

P260 Do not breathe dusts or mists.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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 doctor.

P321 Specific treatment (see on this label).

P314 Get medical advice/attention if you feel unwell.

P405 Store locked up.

· **Additional information:**

EUH031 Contact with acids liberates toxic gas.

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Description:** Mixture of the substances listed below with harmless additions.

· **Dangerous components:**

CAS: 7790-28-5

EINECS: 232-197-6

Reg.nr.: 01-2119980983-20

sodium periodate

Ox. Sol. 1, H271; STOT RE 1, H372; Skin Corr.

1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400

≥5-<10%

CAS: 7664-93-9

EINECS: 231-639-5

Reg.nr.: 01-2119458838-20

SULPHURIC ACID

Skin Corr. 1A, H314

≥2.5-<5%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

GB

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air and call for doctor for safety reasons.
- **After skin contact** Instantly rinse with water.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

- **After swallowing** In case of persistent symptoms consult doctor.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

· 5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded. Formation of poisonous gases during heating or in fires.

· 5.3 Advice for firefighters

- **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Put on breathing apparatus.

Wear protective equipment. Keep unprotected persons away.

Use breathing protection against the effects of fumes/dust/aerosol.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

No special measures required.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 Reference to other sections

No dangerous materials are released.

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

The application of the decoater is in a closed decoater chamber and therefore is the question

irrelevant. For manual application we recommend air exchange rate of 10 times per hour or target-oriented

suction at the place of formation.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Substance/product is auto-extinguishing, but can burn when combined with flammable material.

Keep breathing equipment ready.

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

· **Storage**

· **Requirements to be met by storerooms and containers:** Store in cool location.

· **Information about storage in one common storage facility:**

Store away from flammable substances.

Do not store together with acids.

· **Further information about storage conditions:**

Frost free and max. 30°C.

Protect from frost.

Keep container tightly sealed.

· **Storage class 8 B**

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with critical values that require monitoring at the workplace:**

7664-93-9 SULPHURIC ACID

WEL (Great Britain) Long-term value: 0.05 mg/m^3

*mist: defined as thoracic fraction

IOELV (EU) Long-term value: 0.05 mg/m^3

· **DNELs**

7790-28-5 sodium periodate

Oral DNEL: $0.03 \text{ mg/kg bw/day}$ (consumer, systemic, short term)

$0.01 \text{ mg/kg bw/day}$ (consumer, systemic, long term)

Dermal DNEL: 0.2 mg/kg bw/day (worker, systemic, short term)

$0.06 \text{ mg/kg bw/day}$ (worker, systemic, long term)

$0.09 \text{ mg/kg bw/day}$ (consumer, local, short term)

$0.03 \text{ mg/kg bw/day}$ (consumer, systemic, long term)

Inhalative DNEL: 0.3 mg/m^3 (worker, systemic, short term)

0.1 mg/m^3 (worker, systemic, long term)

0.09 mg/m^3 (consumer, systemic, short term)

0.03 mg/m^3 (consumer, systemic, long term)

7664-93-9 SULPHURIC ACID

Inhalative DNEL 0.05 mg/m³ (worker, local, long term)

· PNECs

7790-28-5 sodium periodate

PNEC 0.00018 mg/l (fresh water)

0.000018 mg/l (salt water)

0.0018 mg/l (sporadic release)

2.2 mg/l (sewage plant (STP))

PNEC 0.000702 mg/kg dwt (fresh water sediment)

0.0000702 mg/kg dwt (salt water sediment)

0.000035 mg/kg dwt (soil)

7664-93-9 SULPHURIC ACID

PNEC 0.003 mg/l (fresh water)

0 mg/l (salt water)

8.8 mg/l (sewage plant (STP))

PNEC 0.002 mg/kg dwt (fresh water sediment)

0.002 mg/kg dwt (salt water sediment)

· **Additional information:** The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· Personal protective equipment

· General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· Breathing equipment:



In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

· Protection of hands:



Protective gloves.

· **Material of gloves**

We recommend:

Nitril / Neopren ; strength >0,55 mm

nature latex; strength > 1,0 mm

e.g. Sol-Vex 37-185; Emperor ME 104

(breakdown time >180 min)

The selection of the suitable gloves does not only depend on the material, but also on further marks

of quality and varies from manufacturer to manufacturer. As the product is a preparation of several

substances, the resistance of the glove material can not be calculated in advance and has therefore

to be checked prior to the application.

· **Penetration time of glove material**

The determined penetration times according to EN 16523-1:2015 are not performed under practical

conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time,

is recommended.

· **Eye protection:**



Tightly sealed safety glasses.

· **Body protection:** *Protective work clothing.*

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: *Fluid*

Colour: *Colourless*

· **Smell:** *Characteristic*

· **Odour threshold:** Not determined.

· **pH-value at 20 °C:** 1

Acidic

· **Change in condition**

Melting point/freezing point: Not determined

Initial boiling point and boiling range: 100 °C

· **Flash point**

(ISO 3679 / ISO 3680; SETA CLOSED CUP): Not applicable

· **Inflammability (solid, gaseous)** Not applicable.

· **Decomposition temperature:** Not determined.

· **Self-inflammability:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive.

· **Critical values for explosion:**

Lower: Not determined.

Upper: Not determined.

· **Steam pressure at 20 °C:** 23 hPa

· **Density (DIN 51757) at 20 °C:** 1.125 g/cm³ (DIN 51757)

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

Water: Fully miscible

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

dynamic: Not determined.

kinematic: Not determined.

· **Solvent content:**

Water: 86.1 %

VOC, EU (%) 0.00 %

Solids content(DIN 53189): 0.0 % (DIN 53189)

· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions**

When diluting, always add acid to water, never vice versa

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

7664-93-9 SULPHURIC ACID

Oral LD50 2,140 mg/kg (rat)

Inhalative LC50/4 h 375 mg/l (rat)

· **Primary irritant effect:**

· **Skin corrosion/irritation**

Causes severe skin burns and eye damage.

· **Serious eye damage/irritation**

Causes serious eye damage.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **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 are not met.

· **STOT-repeated exposure**

May cause damage to the thyroid through prolonged or repeated exposure.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **12.1 Toxicity**

· **Aquatic toxicity:**

7790-28-5 sodium periodate

NOEC 0.1 mg/l (algae) (72 h)

EC50 0.18 mg/l (daphniae) (48 h; *Daphnia magna*)

1.1 mg/l (algae) (72 h; *Pseudokirchneriella subcapitata*)

220 mg/l (bacteriae)

LC50 >0.17 mg/l (fish) (96 h; *Oncorhynchus mykiss*)

7664-93-9 SULPHURIC ACID

EC50 29 mg/l (daphniae) (24 h)

58 mg/l (bacteriae) (120 h)

LC50 42 mg/l (fish) (96 h)

· **12.2 Persistence and degradability** Heavily biodegradable

· **12.3 Bioaccumulative potential** May be accumulated in organism

· **12.4 Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **AOX-indication:**

Product can cause higher-than supposed AOX findings. See explanatory notes DIN EN ISO 9562.

· **According to recipe contains the following heavy metals and compounds according to EC**

guideline NO. 76/464 EC:

none

· **General notes:**

Water danger class 3 (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into soil.

Danger to drinking water if even small quantities leak into soil.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH values.

A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is

considerably increased, so that after the use of the product the aqueous waste, emptied into drains,

is only low water-dangerous.

• **12.5 Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

• **13.1 Waste treatment methods**

• **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

• **Uncleaned packagings:**

• **Recommendation:** Disposal must be made according to official regulations.

• **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

• **14.1 UN-Number**

• **ADR, IMDG, IATA UN3264**

• **14.2 UN proper shipping name**

• **ADR 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sodium periodate, SULPHURIC ACID)**

• **IMDG, IATA CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sodium periodate, SULPHURIC ACID)**

• **14.3 Transport hazard class(es)**

• **ADR**



• **Class 8 (C1) Corrosive substances.**

• **Label 8**

IMDG, IATA



- **Class 8** Corrosive substances.
- **Label 8**

14.4 Packing group

- **ADR, IMDG, IATA I**

14.5 Environmental hazards:

- **Marine pollutant:** No

· **14.6 Special precautions for user** Transport only in sealed and upright standing containers. Transport only by persons instructed concerning the measures in case of spilling or accident.

Warning: Corrosive substances.

- **Kemler Number:** 88
- **EMS Number:** F-A,S-B
- **Segregation groups (SGG1)** Acids
- **Stowage Category B**
- **Stowage Code SW2** Clear of living quarters.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **Transport/Additional information:**
- **ADR**
- **Limited quantities (LQ)** 0
- **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity
- **Transport category 1**

- **Tunnel restriction code E**

IMDG

- **Limited quantities (LQ)** 0
- **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity
- **UN "Model Regulation":** UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SODIUM PERIODATE, SULPHURIC ACID), 8, I

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2004/42/EC of the European Parliament and of the Council of 21 April 2004 / Part II**
2010

The 2004/42/EC does not apply for this product.

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations** Control of Substances Hazardous to Health (COSHH)
- **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

- **Other regulations, limitations and prohibitive regulations**

ZH 1/105 "Protective Clothing-Information Sheet"

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The UK REACH registration numbers given in chapter 1 (for substances) or chapter 3 (for formulations) are given to our present knowledge resulting from the information provided by our suppliers.

· Relevant phrases

H271 May cause fire or explosion; strong oxidiser.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Ox. Sol. 1: Oxidizing solids – Category 1
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1