

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2020

Version number 1

Revision: 04.12.2019

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

- **1.1 Product identifier**
- **Trade name:** Stazon metallic
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
No further relevant information available.
- **Application of the substance / the preparation:** Colour ink
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
TSUKINEKO CO., LTD.  
5F SUEHIRO JF BLDG., 5-1-5, SOTOKANDA, CHIYODA-KU, TOKYO 101-0021 JAPAN  
Phone number: +<81> 3-3834-1080 (Japan)  
FAX number: +<81> 3-3834-1050 (Japan)
- **Further information obtainable from:** Sales department
- **1.4 Emergency telephone number:** Phone number: +<81> 3-3834-1080 (Japan)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS09

- **Signal word** Void
- **Hazard statements**  
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P273 Avoid release to the environment.  
P391 Collect spillage.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**  
40.8 % of the mixture consists of component(s) of unknown toxicity.  
Contains 98.6 % of components with unknown hazards to the aquatic environment.
- **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 substances listed below with nonhazardous additions.

(Contd. on page 2)

EU

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2020

Version number 1

Revision: 04.12.2019

**Trade name: Stazon metallic**

(Contd. of page 1)

· <b>Dangerous components:</b>		
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5	benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	5-7%
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-002-00-1	aluminium powder (stabilised) ⚠ Flam. Sol. 1, H228; Water-react. 2, H261	0-8%
CAS: 122-99-6 EINECS: 204-589-7 Index number: 603-098-00-9	2-Phenoxyethanol ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319	2-4%
CAS: 63148-65-2	Vinyl acetal polymers, butyral ⚠ Eye Irrit. 2, H319	1-3%
CAS: 140-66-9 EINECS: 205-426-2 Index number: 604-075-00-6	4-tert-octylphenol ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); ⚠ Skin Irrit. 2, H315	0.4-0.5%
CAS: 7664-38-2 EINECS: 231-633-2 Index number: 015-011-00-6	phosphoric acid ⚠ Skin Corr. 1B, H314 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	<0.2%
CAS: 18282-10-5 EINECS: 242-159-0	tin dioxide substance with a Community workplace exposure limit	0-0.1%
CAS: 128-37-0 EINECS: 204-881-4	Butylated hydroxytoluene ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	<0.1%

· **SVHC**

140-66-9 | 4-tert-octylphenol

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures**· **4.1 Description of first aid measures**· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Remove contaminated clothing and shoes.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eyes for several minutes under running water.

If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth with water.

If symptoms persist consult a 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:** Carbon dioxide, foam, dry chemical powder, dry sand. Do not use water.

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2020

Version number 1

Revision: 04.12.2019

**Trade name: Stazon metallic**

(Contd. of page 2)

- **5.2 Special hazards arising from the substance or mixture:**  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)  
Metal or Metal oxide fumes
- **5.3 Advice for firefighters**  
Use dry chemical powder, carbon dioxide, dry sand for early stage of fire.  
Apply water from a safe distance to cool and protect surrounding area.  
Remove containers to a safe place.
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Wear proper protective equipment to avoid contact and inhalation.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:**  
Keep away from incompatible materials. (Refer to SECTION 10)
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

<b>Ingredients with limit values that require monitoring at the workplace:</b>	
<b>7664-38-2 phosphoric acid</b>	
IOELV	Short-term value: 2 mg/m <sup>3</sup>
	Long-term value: 1 mg/m <sup>3</sup>

(Contd. on page 4)

EU

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2020

Version number 1

Revision: 04.12.2019

**Trade name: Stazon metallic**

(Contd. of page 3)

**18282-10-5 tin dioxide**

IOELV	Long-term value: 2 mg/m <sup>3</sup> as Sn
-------	-----------------------------------------------

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**  
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 exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling.
- **Body protection:**  
Apron  
Boots

### SECTION 9: Physical and chemical properties

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

- **General Information**

- **Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Coloured
<b>Odour:</b>	Slightly smell
<b>Odour threshold:</b>	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	Not determined

- **Flash point:** 64.5 °C

- **Flammability (solid, gas):** Not applicable.

- **Decomposition temperature:** Not determined.

(Contd. on page 5)

EU

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2020

Version number 1

Revision: 04.12.2019

**Trade name: Stazon metallic**

(Contd. of page 4)

· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Oxidising properties</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	48.8 %
<b>VOC (EC)</b>	9.00 %
<b>Solids content:</b>	Not determined.
· <b>9.2 Other information</b>	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:**  
Reacts with strong oxidizing agent, acid chloride, acid anhydride, strong reducing agent.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidizing agent, acid chloride, acid anhydride, strong reducing agent
- **10.6 Hazardous decomposition products:**  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides (CO<sub>x</sub>)

### 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 relevant for classification:

100-51-6 benzyl alcohol		
Oral	LD50	1,230 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
122-99-6 2-Phenoxyethanol		
Oral	LD50	1,260 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)

(Contd. on page 6)

EU

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2020

Version number 1

Revision: 04.12.2019

Trade name: Stazon metallic

(Contd. of page 5)

**140-66-9 4-tert-octylphenol**

Oral	LD50	3,210 mg/kg (mouse)
------	------	---------------------

**128-37-0 Butylated hydroxytoluene**

Oral	LD50	890 mg/kg (rat)
------	------	-----------------

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Irritation may occur.
- **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** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** Toxic to aquatic life
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous to water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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** Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |                                            |                 |
|--------------------------------------------|-----------------|
| · <b>14.1 UN-Number</b>                    | Void            |
| · <b>14.2 UN proper shipping name</b>      | Void            |
| · <b>14.3 Transport hazard class(es)</b>   | Void            |
| · <b>14.4 Packing group</b>                | Void            |
| · <b>14.5 Environmental hazards:</b>       |                 |
| · <b>Marine pollutant:</b>                 | No              |
| · <b>14.6 Special precautions for user</b> | Not applicable. |

(Contd. on page 7)

EU

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2020

Version number 1

Revision: 04.12.2019

**Trade name: Stazon metallic**

(Contd. of page 6)

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

140-66-9	4-tert-octylphenol
----------	--------------------

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

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H228 Flammable solid.  
 H261 In contact with water releases flammable gases.  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.

- **Department issuing SDS:** Sales department

- **Contact:** Phone number: +<81> 3-3834-1080 (Japan)

- **Abbreviations and acronyms:**

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)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Sol. 1: Flammable solids – Category 1  
 Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2  
 Acute Tox. 4: Acute toxicity - oral – Category 4  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

(Contd. on page 8)

EU

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 18.05.2020

Version number 1

Revision: 04.12.2019

**Trade name: Stazon metallic**

(Contd. of page 7)

· **\* Data compared to the previous version altered.**  
Classification according to Regulation (EC) No 1272/2008

EU