

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

Printing date 16.09.2019

Version number 7

Revision: 16.09.2019

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

- **1.1 Product identifier** Printing Ink Additive
- **Range** TEXCHARGE TC - TC00B
- **Product Codes** TC747
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
The product should not be used for any purpose other than that specified in Section 1.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer:**  
Fujifilm Speciality Ink Systems Limited  
Pysons Road, Broadstairs, Kent. CT10 2LE.  
Tel. +44 (0)1843 866668
- **Information department:**  
Product Safety Department  
Office hours +44(0)1843 866668 (0830 to 1700 GMT)  
fsis.product-safety@fujifilm.com
- **1.4 Emergency telephone number:** +44 (0) 203 394 9886 (English)

### SECTION 2: Hazards identification

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

Acute Tox. 4	H302	Harmful if swallowed.
Muta. 2	H341	Suspected of causing genetic defects.
Repr. 2	H361	Suspected of damaging fertility or the unborn child.
Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very 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**



GHS07



GHS08



GHS09

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
zinc bis(hydroxymethanesulphinat)
- **Hazard statements**  
H302 Harmful if swallowed.  
H341 Suspected of causing genetic defects.  
H361 Suspected of damaging fertility or the unborn child.  
H410 Very toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P308+P313 IF exposed or concerned: Get medical advice/attention.
- **Additional information:**  
EUH031 Contact with acids liberates toxic gas.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixture**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 24887-06-7	zinc bis(hydroxymethanesulphinate)	50-100%
EINECS: 246-515-6	Muta. 2, H341; Repr. 2, H361	
Reg.nr.: 01-2120770256-52	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
	Acute Tox. 4, H302	

- **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**
- **General information** Never make an unconscious person vomit or drink fluids.
- **After inhalation**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
- **After skin contact** Immediately wash with soap and water and rinse thoroughly.
- **After eye contact**  
Rinse open eye for several minutes under running water. Then consult a doctor.
- **After swallowing**  
Give patient copious amounts of water to drink and provide fresh air. Call for a doctor immediately.
- **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**  
Foam  
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents**  
Carbon dioxide  
Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Sulphur dioxide (SO<sub>2</sub>)  
In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.: formaldehyde
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
Cool endangered containers with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Keep away from ignition sources



Refer to the protective measures stated in Sections 7 and 8.  
Keep unprotected personnel away.

Ensure adequate ventilation

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- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities if seepage into water course or sewage system occurs.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose of contaminated material as waste according to section 13.
- **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**  
Store in cool, dry place in tightly sealed containers.  
Keep away from heat and direct sunlight.  
Ensure good ventilation and extraction at the workplace.  
Prevent formation of dust.
- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:** Store in accordance with current national regulations.
- **Requirements to be met by storerooms and containers:** Store between 5 - 30°C.
- **Information about storage in one common storage facility:**  
Do not store together with alkalis (caustic solutions).  
Do not store together with oxidising and acidic materials.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**  
Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates or solvent vapour below the occupational exposure limit stated, then suitable respiratory protection must be worn as a temporary measure and is specified below.

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
- **DNELs**  
worker:

### 24887-06-7 zinc bis(hydroxymethanesulphinate)

Dermal	DNEL	8.3 mg/kg (-) (Long-term systemic effects)
Inhalation	DNEL	1 mg/m <sup>3</sup> (-) (Long-term systemic effects)

- **Additional information:**  
The instructions and information provided by the manufacturer of the personal protective equipment on use, storage, maintenance and replacement must always be followed.
- **8.2 Exposure controls**
- **General protective and hygienic measures**  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes.  
Keep away from foodstuffs, beverages and feed.

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- **Breathing equipment:**  
In cases of insufficient ventilation use the following respiratory protective device:  
Filter P3.  
Not necessary if room is well-ventilated.
- **Protection of hands:**  
Use of the following recommended:

Type	Rubber			Nitrile		Neoprene
	Single Use	Multi Use	Heavy Duty (Gauntlets)	Single Use	Multi Use	Heavy Duty (Gauntlets)
Preparation	X	Y	X	X	Y	X
Print Shop						
Solvent Inks	Y	Y	Y	Y	Y	Y
UV Inks	X	X	X	Y	Y	Y
Reclaim	X	X	Y	X	X	Y

Y = recommended      X = not recommended

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing; disposable overalls are preferable.
- **COSHH Essentials for Printers Control Guidance Sheet:**  
Guidance is provided by the Health and Safety executive (HSE) concerning COSHH (Control of Substances Hazardous to Health) for printers.  
See COSHH Essentials for Printers on the HSE website:  
[www.hse.gov.uk](http://www.hse.gov.uk) and enter 'COSHH Essentials for printers' in the search bar.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: Solid.
  - Colour: White
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value at 20 °C:** 4.3
- **Change in condition**
  - Melting point/freezing point: >100 °C
  - Initial boiling point and boiling range: undetermined
- **Flash point:** Not applicable
- **Flammability (solid, gaseous)** Not determined.
- **Ignition temperature:** Not applicable
- **Decomposition temperature:** Not determined.
- **Self igniting:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Oxidising properties** Not determined
- **Vapour pressure:** Not applicable.
- **Density at 20 °C:** 2.27 g/cm<sup>3</sup>
- **Bulk density:** 1,300 kg/m<sup>3</sup>
- **Relative density** Not determined.

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- |  |  |
|--|--|
| · <b>Vapour density</b>  | Not determined.                            |
| · <b>Water at 20 °C:</b>   | 500 g/l                                    |
| · <b>Partition coefficient: n-octanol/water:</b> Not determined. |  |
| · <b>Viscosity:</b>  | Not determined                             |
| · <b>dynamic:</b>  | Not applicable.                            |
| · <b>kinematic:</b>  | Not applicable.                            |
| · <b>Solvent content:</b>  |  |
| Organic solvents:  | 0.0  |
| · <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:** Stable up to melting point.
- **10.3 Possibility of hazardous reactions** Contact with acids releases toxic gases
- **10.4 Conditions to avoid** Temperature: >50°C
- **10.5 Incompatible materials:**
  - Acids
  - Oxidizing Agents
- **10.6 Hazardous decomposition products:**
  - Sulphur dioxide
  - Formaldehyde

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity**  
Harmful if swallowed.
- |   |      |                   |
|---|------|-------------------|
| · <b>LD/LC50 values that are relevant for classification:</b> |      |                   |
| <b>24887-06-7 zinc bis(hydroxymethanesulphinate)</b>          |      |                   |
| Oral  | LD50 | 1,280 mg/kg (rat) |
- **Skin corrosion/irritation**  
Based on available data, the classification criteria are not met.
  - **Serious eye damage/irritation**  
Based on available data, the classification criteria are not met.
  - **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**  
Suspected of causing genetic defects.
  - **Carcinogenicity** Based on available data, the classification criteria are not met.
  - **Reproductive toxicity**  
Suspected of damaging fertility or the unborn child.
  - **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**
- |  |                            |
|--|----------------------------|
| · <b>Aquatic toxicity:</b>                           |                            |
| <b>24887-06-7 zinc bis(hydroxymethanesulphinate)</b> |                            |
| LC50/96 h  | 0.169 mg/l (Rainbow Trout) |
| EC50   | >100 mg/dm3 (Bacteria)     |

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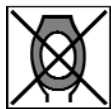
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EC50 24h	12 mg/g (Daphnia)
EC50/72 h	>100 mg/l (Aquatic Plants)

- **12.2 Persistence and degradability** No further relevant information available.
- **Degree of elimination:** >70%
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** LC50 (96h) *Leuciscus Idus*: 1 - 10 mg/l
- **Other information:**  
 COD: 405 mg/g  
 BOD5: 12  
 AOX: 0  
 Zn: 23%
- **Additional ecological information:**
- **General notes:**  
 There are no data on the preparation itself.  
 The preparation has been assessed following the conventional method of the CLP Directive 1272/2008/EC and is classified as dangerous for the environment. Also refer to Sections 2 and 15.



Do not allow product 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**



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

- **European waste catalogue**

06 06 99	wastes not otherwise specified
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- **Waste Hazard Classification:**  
 HP 5 - Specific target Organ Toxicity/Aspiration Toxicity  
 HP 11 - Mutagenic  
 HP 10 - Toxic for reproduction  
 HP 14 - Eco Toxic
- **Recommendation:**  
 Dispose of product according to official regulations.  
 Also see Section 16 'Other Information'

## SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN3077
- **14.2 UN proper shipping name**
- **ADR** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc bis(hydroxymethanesulphinate))
- **IMDG, IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc bis(hydroxymethanesulphinate))

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· **14.3 Transport hazard class(es)**

· ADR



· **Class** 9 Miscellaneous dangerous substances and articles.

· IMDG



· **Class** 9 Miscellaneous dangerous substances and articles.

· Label 9

· IATA



· **Class** 9 Miscellaneous dangerous substances and articles.

· Label 9

· **14.4 Packing group**

· ADR, IMDG, IATA III

· **14.5 Environmental hazards:**

· **Marine pollutant:** Yes

· **Special marking (ADR):** Symbol (fish and tree)

· **Special marking (IATA):** Symbol (fish and tree)

· **14.6 Special precautions for user** Warning: Miscellaneous dangerous substances and articles.

· **Danger code (Kemler):** 90

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

· **Transport/Additional information:** Not dangerous according to the above specifications.

· ADR

· **Limited quantities (LQ)** 5 kg

· IMDG

· **Limited quantities (LQ)** 5 kg

· **UN "Model Regulation":** UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC BIS (HYDROXYMETHANESULPHINATE)), 9, III

## SECTION 15: Regulatory information

· **15.2 Chemical Safety Assessment** Chemical Safety Assessment not applicable

· **15.28 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.

· **Seveso category E1** Hazardous to the Aquatic Environment

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

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- **National regulations**
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**  
Not formulated to contain SVHC according to REACH Article 57 >0.1%

### 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.

An "\*" in the left hand margin indicates an amendment from the previous version.

- **Relevant phrases**

H302 Harmful if swallowed.

H341 Suspected of causing genetic defects.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

- **Recommended restriction of use**

The product should not be used for any purpose other than that specified in Section 1.

- **Department issuing SDS:**

Product Safety Department - Fujifilm Speciality Ink Systems Limited

- **Contact:** [fsis.product-safety@fujifilm.com](mailto:fsis.product-safety@fujifilm.com)

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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 (IATA Dangerous Goods Regulation (DGR) 59th Edition 2018)

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)

DNEL: Derived No-Effect Level (REACH)

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

Acute Tox. 4: Acute toxicity - Category 4

Muta. 2: Germ cell mutagenicity - Category 2

Repr. 2: Reproductive toxicity - 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

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