TOYOINK

SAFETY DATA SHEET
TOYOFRESH PROCESS

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

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

1.1. Product identifier

Product name TOYOFRESH PROCESS

Product number SH-XXXX

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

Identified uses Printing ink.

1.3. Details of the supplier of the safety data sheet

Supplier
TOYO PRINTING INKS INC.
Keçiliköy O.S.B 5.KISIM HASAN TÜREK BULVARI No:6
M45030 MANISA/TURKEY
Tel:+90 236 2265000
Fax:+90 236 2265116
secil.gulbaharli@toyoink.com.tr

Contact person Seçil GÜLBAHARLI

Manufacturer
TOYO PRINTING INKS INC.
Keçiliköy O.S.B 5.KISIM HASAN TÜREK BULVARI No:6
M45030 MANISA/TURKEY
Tel:+90 236 2265000
Fax:+90 236 2265116
secil.gulbaharli@toyoink.com.tr

1.4. Emergency telephone number

Emergency telephone +90 236 226 50 00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Human health May cause skin sensitisation or allergic reactions in sensitive individuals.

Classification (Regulation (EC) No. 1272/2008 CLP).

2.2. Label elements

Hazard statements EUH208 Contains 1,4-dihidroksibenzen, COBALT BIS (2-ETHYLHEXANOATE), Cobalt (2+) propionate. May produce an allergic reaction.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TOYOFRESH PROCESS

Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)	**10-20%**
CAS number: — EC number: 919-006-8	
Classification Asp. Tox. 1 - H304 Aquatic Chronic 4 - H413	
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	**5-10%**
CAS number: — EC number: 919-029-3	
Classification Asp. Tox. 1 - H304	
Hydrocarbons, C14-C18, n-alkanes,isoalkanes, cyclics, <2% aromatics	**1-5%**
CAS number: — EC number: 927-632-8 Reach Reg No: 01-2119457736-27	
Classification Asp. Tox. 1 - H304	
Hydrocarbons, C14-C18, n-alkanes,isoalkanes, cyclics, aromatics (2-30 %)	**1-5%**
CAS number: 1174522-18-9 EC number: 920-360-0	
Classification Asp. Tox. 1 - H304	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues. Remove affected person from source of contamination. Move affected person to fresh air at once. Keep affected person away from heat, sparks and flames. Chemical burns must be treated by a physician.

Inhalation Get medical attention. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Keep affected person under observation. Get medical attention. Show this Safety Data Sheet to the medical personnel.

Ingestion Get medical attention immediately. Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Eye contact Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention promptly if symptoms occur after washing.

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

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

TOYOFRESH PROCESS

Inhalation Prolonged or repeated exposure may cause the following adverse effects: Overexposure may depress the central nervous system, causing dizziness and intoxication. Sore throat. Drowsiness. Dizziness. Exhaustion and weakness. Nausea, vomiting.

Ingestion Ingestion of large amounts may cause unconsciousness. May cause chemical burns in mouth, oesophagus and stomach. Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Skin contact Prolonged contact causes serious eye and tissue damage. This product is rapidly absorbed through the skin and may cause symptoms similar to those of ingestion.

Eye contact Prolonged contact may cause burns.

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

Notes for the doctor No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

Specific treatments No specific chemical antidote is known to be required after exposure to this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Does not decompose when used and stored as recommended. When heated, vapours/gases hazardous to health may be formed.

5.3. Advice for firefighters

Protective actions during firefighting Fight advanced or massive fires from safe distance or protected location.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For waste disposal, see Section 13. For personal protection, see Section 8. See Section 1 for emergency contact information. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. Avoid contact with skin, eyes and clothing.

TOYOFRESH PROCESS

Advice on general occupational hygiene	Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Take off immediately all contaminated clothing and wash it before reuse. Contaminated clothing should be placed in a closed container for disposal or decontamination.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Keep away from heat, sparks and open flame. Keep container tightly closed. Keep only in the original container. Keep away from food, drink and animal feeding stuffs. Take precautionary measures against static discharges. Keep in a cool place.
Storage class	Chemical storage.

7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	The following protection should be worn: Chemical splash goggles or face shield.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact. AVOID ALL SKIN AND RESPIRATORY CONTACT!
Hygiene measures	Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station and safety shower.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Check that the respirator fits tightly and the filter is changed regularly.
Thermal hazards	To protect hands from high temperatures, suitable thermal gloves should be used.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Coloured paste.
Colour	Various colours.
Odour	Characteristic.
Odour threshold	Not determined.
pH	Not available.
Melting point	Not applicable.

TOYOFRESH PROCESS

Initial boiling point and range	260-310°C @
Flash point	>100°C
Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not available.
Other flammability	Not available.
Vapour pressure	Not determined.
Vapour density	Not determined.
Bulk density	1.0-1.1 g/ml
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	25-100 Pa s @ °C
Explosive properties	Not determined.
Oxidising properties	Not determined.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not known.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition products No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effects No information available.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

TOYOFRESH PROCESS

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation May cause sensitisation or allergic reactions in sensitive individuals.

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

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

11.2 Information on other hazards

Information on other hazards

SECTION 12: Ecological information

12.1. Toxicity

Toxicity The product is not believed to present a hazard due to its physical nature.

Ecological information on ingredients.

COBALT BIS (2-ETHYLHEXANOATE)

Acute aquatic toxicity	
$LE(C)_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1

12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6 Endocrine disrupting properties

Endocrine disrupting properties This product does not have endocrine disrupting properties.

TOYOFRESH PROCESS

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Dispose of waste via a licensed waste disposal contractor.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Maritime transport in bulk according to IMO instruments

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Guidance CHIP for everyone HSG228.
Workplace Exposure Limits EH40.
Safety Data Sheets for Substances and Preparations.
Approved Classification and Labelling Guide (Sixth edition) L131.

TOYOFRESH PROCESS

Authorisations (SI 2020 No. 1577 Annex XIV)	No specific authorisations are known for this product.
Restrictions (SI 2020 No. 1577 Annex XVII)	No specific restrictions on use are known for this product.

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15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	CLP
Issued by	Seçil GÜLBAHARLI - secil.gulbaharli@toyoink.com.tr
Revision date	31/01/2023
Revision	4
Supersedes date	31/10/2016
SDS number	21465
SDS status	Approved.
Hazard statements in full	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. H413 May cause long lasting harmful effects to aquatic life. EUH208 Contains 1,4-dihidroksibenzen, COBALT BIS (2-ETHYLHEXANOATE), Cobalt (2+) propionate. May produce an allergic reaction.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.