

Safety Data Sheet

1. Identification of the substance/preparation

Marker Pen, for writing. Water resistant and fast drying
(Red, Blue, Green, Pink, Yellow, Purple, Orange Sky blue, Black)

Manufacturer:.

Issue date: 20th October 2019

2. Composition/ information on ingredients

Substance or compound: compound

Ingredient Name 成分名称	CAS No./RN CAS 登记号	% By Weight (% Active) 重量百分比 (活性百分比)
Porduct #1 Blue		
Glycerol	56-81-5	9.6%
Kojic Acid	501-30-4	0.7%
Polysorbate-20	9005-64-5	0.7%
YELLOW23	1934-21-0	2%
RED52	3520-42-1	4%
BLUE9	3844-45-9	4%
Water	7732-18-5	20%
polypropylene	9003-07-0	37%
poly	24937-16-4	2%
polypropylene	9003-07-0	20%
Porduct #2 Red		
Glycerol	56-81-5	9.6%
Kojic Acid	501-30-4	0.7%
Polysorbate-20	9005-64-5	0.7%
YELLOW23	1934-21-0	8%
RED18	2611-82-7	2%

Water	7732-18-5	20%
polypropylene	9003-07-0	37%
poly	24937-16-4	2%
polypropylene	9003-07-0	20%
Porduct #3 Green		
Glycerol	56-81-5	9.6%
Kojic Acid	501-30-4	0.7%
Polysorbate-20	9005-64-5	0.7%
YELLOW23	1934-21-0	4%
BLUE9	3844-45-9	6%
Water	7732-18-5	20%
polypropylene	9003-07-0	37%
poly	24937-16-4	2%
polypropylene	9003-07-0	20%
Porduct #4 Yellow		
Glycerol	56-81-5	9.6%
Kojic Acid	501-30-4	0.7%
Polysorbate-20	9005-64-5	0.7%
YELLOW23	1934-21-0	10%
Water	7732-18-5	20%
polypropylene	9003-07-0	37%
poly	24937-16-4	2%
polypropylene	9003-07-0	20%
Porduct #5 Orange		
Glycerol	56-81-5	9.6%
Kojic Acid	501-30-4	0.7%
Polysorbate-20	9005-64-5	0.7%
YELLOW23	1934-21-0	6%
RED52	3520-42-1	4%
Water	7732-18-5	20%
polypropylene	9003-07-0	37%
poly	24937-16-4	2%
polypropylene	9003-07-0	20%
Porduct #6 Pink		

Glycerol	56-81-5	9.6%
Kojic Acid	501-30-4	0.7%
Polysorbate-20	9005-64-5	0.7%
RED92	18472-87-2	6%
RED18	2611-82-7	2%
Water	7732-18-5	22%
polypropylene	9003-07-0	37%
poly	24937-16-4	2%
polypropylene	9003-07-0	20%
Porduct #7 purple		
Glycerol	56-81-5	9.6%
Kojic Acid	501-30-4	0.7%
Polysorbate-20	9005-64-5	0.7%
BLUE9	3844-45-9	3%
Purple10	81-88-9	7%
Water	7732-18-5	20%
polypropylene	9003-07-0	37%
poly	24937-16-4	2%
polypropylene	9003-07-0	20%
Porduct #8 Sky blue		
Glycerol	56-81-5	9.6%
Kojic Acid	501-30-4	0.7%
Polysorbate-20	9005-64-5	0.7%
YELLOW23	1934-21-0	2%
RED52	3520-42-1	2%
BLUE9	3844-45-9	1%
Water	7732-18-5	25%
polypropylene	9003-07-0	37%
poly	24937-16-4	2%
polypropylene	9003-07-0	20%
Porduct #9 Balck		
Glycerol	56-81-5	9.6%
Kojic Acid	501-30-4	0.7%
Polysorbate-20	9005-64-5	0.7%

carbon black	1333-86-4	5%
Water	7732-18-5	25%
polypropylene	9003-07-0	37%
poly	24937-16-4	2%
polypropylene	9003-07-0	20%

3. Hazards identification

Emergency Overview

Specific Physical form: Marler pen. MSDS for ink only

Odor, color: Red, Blue, Green, Pink, Yellow, Purple, Orange **Sky blue**
ink with solvent odor

General Physical form: Liquid

Immediate health, physical and environmental hazards: Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back. May cause target organ effects. It contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Eye contact: Moderate eye irritation: Signs/ symptoms may include redness, swelling, pain, tearing and blurred or hazy vision.

Skin Contact: Mild skin irritation: Signs/ symptoms may include localized redness, swelling and itching. It may be absorbed through skin and cause target organ effects.

Inhalation: Respiratory tract irritation: Signs/ symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion: Gastrointestinal irritation: Signs/ symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. It may be absorbed following ingestion and cause target organ effects.

Target Organ Effects: Central nervous system depression: Signs. Symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slow reaction time, slurred speech, giddiness and unconsciousness.

4. First Aid Measures

Eye contact: Flush eyes with large amounts of water. If signs/ symptoms persist, get medical attention.

Skin contact: Wash affected area with soap and water. If signs/ symptoms develop, get medical attention.

Inhalation: Remove person to fresh air. If signs/ symptoms develop, get medical attention.

If swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

5. Fire Fighting Measures

Extinguishing Media

Ordinary combustible material: use fire extinguishers with class A extinguishing agents (e.g. water, foam). Use fire extinguishers with class B extinguishing agents (e.g. dry chemical, carbon dioxide)

6. Accidental Release Measures

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, stat, and federal regulations.

7. Handling and Storage

Handling

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. No smoking while handling this material. Avoid eye contact with vapors, mists, or spray.

Storage

Store away from acids. Store away from heat. Store out of direct sunlight. Keep container in well-ventilated area.

8. Exposure Control/ Personal Protection

Use with appropriate local exhaust ventilation.

Avoid eye contact with vapors, mist, or spray.

Avoid skin contact. Select and use gloves and/ or protective clothing to prevent skin contact.

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

9. Physical and Chemical properties

Form: Fine felt tip pen. MSDS for ink only

Odor: Black or pink ink with solvent odor

Flash point: 87C Boiling

point: 76C

pH: 6

Solubility in water: not soluble

10. Stability and Reactivity

Stability: stable

Materials and conditions to avoid: may react with oxidizing agents.

May react with strong alkaline agents.

11. Toxicological information

11.1 - Information on toxicological effects

Component: ethanol; ethyl alcohol CAS No. 64-17-5

Acute toxicity

Oral

Value type : LD50

Value : 6200 mg/kg

Species : rat

Inhalation

Value type : LC50

Value : 124.7 mg/kg

Exposure time : 4 h

Species : rat

Irritation

Skin

Remarks : Degreases the skin, which may cause dryness. Prolonged or repeated skin contact may result in dermatitis.

Eyes

Remarks : Splashes in eyes may cause strong pain. Vapour can cause irritation.

Sensitisation

Remarks : Did not cause sensitisation on laboratory animals.

Further information

Other relevant toxicity

information: All numerical values for acute toxicity are calculated on the pure substances.

Experiences with human

exposure: Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

Component: propan-2-ol; isopropyl alcohol CAS No. 67-63-0

Acute toxicity

Oral

Value type : LD50

Value : 5280 mg/kg

Species : rat

Inhalation

Value type : LC50

Value : 72.6 mg/kg

Exposure time : 4 h

Species : rat

Value type : LC50

Value : 47.5 mg/l

Exposure time : 8 h

Species : rat

Dermal

Value type : LD50

Value : 12800 mg/kg

Species : rabbit

Irritation

Skin

Species : rabbit

Result : No skin irritation

Eyes

Species : rabbit.

Result : Irritating to eyes

Sensitisation

Species : Guinea pig
Result : Not sensitizing
Method : Buehler test

Further information

Other relevant toxicity

information: All numerical values for acute toxicity are calculated on the pure substances.

Experiences with human exposure: Prolonged skin contact may defat the skin and result in dermatitis.

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Risk of product entering the lungs on vomiting after ingestions. Liver injury may occur.

Component: Benzyl alcohol

CAS No. 100-51-6

Acute toxicity

Oral

Value type : LD50

Value : <2000 mg/l

Species : rat

Inhalation

Value type : LC50

Value : >5000 mg/m³

Dermal

Value type : LD50 Value

: 15 ml/kg

12. Ecological Information

12.1 - Toxicity

Component: ethanol; ethyl alcohol CAS No. 64-17-5

Acute toxicity

Fish

Species : Leuciscus idus (Golden orfe)

Value type : LC50

Value : 8150 mg/l

Toxicity to daphnia and other aquatic invertebrates

Species : Daphnia magna

Exposure time : 48 h

Value type : EC50

Value : 9268 - 14221 mg/l

Algae

Species : Scenedesmus quadricauda

Exposure time : 168 h

Value type : EC0

Value : 5000 mg/l

Bacteria

Species : Pseudomonas putide

Value type : EC0

Value : 6500 mg/l

Remarks : Cell-proliferation inhibition test

Component: propan-2-ol; isopropyl alcohol CAS No. 67-63-0

Acute toxicity

Fish

Species : Pimephales promelas

Exposure time : 96 h

Value type : LC50

Value : 9640 mg/l

Toxicity to daphnia and other aquatic invertebrates

Species : Daphnia magna

Exposure time : 48 h

Value type : EC50

Value : 13299 mg/l

Algae

Species : Desmodesmus subspicatus (green algae)

Exposure time : 72 h

Value type : EC50

Value : >1000 mg/l

Bacteria

Species : Pseudomonas putide

Exposure time : 18 h

Value type : EC10

Value : 5175 mg/l

Method : DIN 38412

Species : Activated sludge

Value type : EC50

Value : >1000 mg/l

Remarks : Respiration inhibition

Component: Benzyl alcohol of activated sludge CAS No. 100-

Acute toxicity 51-6

Fish

Species : fish

Exposure time : 48 h

Value type : LC50
Value : 86 mg/l
Toxicity to daphnia and other aquatic invertebrates
Species : Daphnia magna
Exposure time : 48 h
Value type : EC50
Value : >0.76 mg/l
Algae
Species : Algae
Exposure time : 72 h
Value type : IC50
Value : >100 mg/l

12.2 - Persistence and degradability

Component: ethanol; ethyl alcohol CAS No. 64-17-5

Persistence and biodegradability

Biodegradability

Remarks : Readily biodegradable

Component: propan-2-ol; isopropyl alcohol CAS No. 67-63-0

Persistence and biodegradability

Biodegradability

Biodegradation : 95%

Exposure time : 21 d

Method : OECD 301 E

Remarks : Readily biodegradable.

12.3 - Bioaccumulative potential

Component: propan-2-ol; isopropyl alcohol CAS No. 67-63-0

Bioaccumulation

Remarks : Does not bioaccumulate.

12.4 - Mobility in soil Mobile in water environment.

12.5 - Results of PBT and vPvB assessment No information available.

12.6 - Other adverse effects

All numerical values for ecotoxicity effects are calculated on the pure substances. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

13. Disposal Considerations

13.1 - Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not empty into drains.

Contact waste disposal services.

Contaminated packaging : Empty contaminated packaging thoroughly. They can be recycled after

thorough and proper cleaning. Packaging that cannot be cleaned is to be disposed of in the same manner as the product. Do not burn, or use a cutting torch on the empty drum. Risk of explosion.

European Waste

Catalogue Number: 080312 - waste ink containing dangerous substances

14. Transport Information

No airfreight

Labeling on container: flammable

15. Regulatory Information

15.1 - Safety, health and environmental regulations/legislation specific for the substance or mixture No information available.

15.2 - Chemical safety assessment No information available.

15.3-The mixtures are not classified according to EC regulation No 1272/2008 CLP.

16. Other Information

The data in the safety technical description was re-organized based on our current knowledge and experience, and only describe the product considering safety aspect. The data does not cover the nature of the product (technical specification). It should not be presumed the nature agreed or the applicability of the product for special use. The precipitant of the product has liability to make sure any property right and obey with the prevailing regulations and laws.

