

Safety Data Sheet acc. to OSHA HCS

Issue date: 1/9/2019
Trade name: felt-tip pen ink

1 Identification

.Product identifier

.Trade name: felt-tip pen ink

.Application of the substance/the mixture Washable ink Marker

.Details of the supplier of the Safety data sheet

.Manufacturer/Supplier:

yuyao furui stationery co.,ltd.

Address: NO.18,xicheng road,linshan town,yuyao,zhejiang,china

Fax:+86-0574-62666926

Email:focusyan@126.com

.Emergency telephone number:

+86-18939761815

Am9:30-Pm4:30

2 Hazard(s) identification

.Classification of the Substance or mixture

The product is not classified according to the Globally Harmonized System (GHS)

.Label elements

.GHS label elements Void

.Hazard pictograms Void

.Signal word Void

.Hazard statements Void

.Classification system:

.NFPA ratings (scale 0-4)



.HMIS-ratings (scale 0-4)



.Other hazards

.Results of PBT and vPvB assessment

.PBT: Not applicable

.vPvB: Not applicable

3 Composition/information on ingredients

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Trade name: felt-p pen ink**.Chemical characterization: Mixtures****.Description:** Mixture of the substances listed below with nonhazardous addions

Ingredient Name	CAS#	wt%
Glycerol	56-81-5	15.0%
polyacrylic acid	9007-20-9	5.0%
AMP95	68298-05-5	0.5%
Bronopol	52-51-7	0.5%
water	7732-18-5	71.0-74.0%
P.BK7	1333-86-4	0-8%
P.R254	84632-65-5	0-8%
P.V19	1047-16-1	0-8%
P.G7	14832-14-5	0-8%
P.O13	3520-72-7	0-8%
P.Y14	5468-75-7	0-8%
P.R21	6410-26-0	0-8%
P.Y12	6358-85-6	0-8%
P.BL29	57455-37-5	0-8%
P.BL15: 3	147-14-8	0-8%
P.R21	6410-26-0	0-8%

4 First-aid measures**.Description of first aid measures****.General information:** No Special measures required**.After inhalation:** Supply fresh air; consult doctor in case of complaints**.After skin contact:** Generally the product does not irritate the skin**.After eye contact:** Rinse open eye for several minutes under running water**.After swallowing:** If symptoms persist consult doctor**.Information for doctor:****.Most important symptoms and effects, both acute and delayed** No further relevant information available..No further relevant informa available**5 Fire-fighting measures****.Extinguishing media****.Suitable extinguishing agents**CO2 exnguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**.Special hazards arising from the substance or mixture** No further relevant information available.**.Advice for firefighters****.Protective equipment:** No special measures required.**6 Accidental release measures****.Personal precautions, protective equipment and emergency procedures:** Not required.**.Environmental precautions:** Do not allow to enter sewers/surface or ground water.**.Methods and material for containment and cleaning up:**

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

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.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.

7 Handling and storage**.Handling:****.Precautions for safe handling:** No special measures required.**.Information about protection against explosion and fires:** No special measures required.**.Conditions for safe storage, including any incompatibilities****.Storage:****.Requirements to be met by storerooms and receptacles:** No special requirements.**.Information about storage in one common storage facility:** Not required.**.Further information about storage conditions:** None.**.Specific end use(s):** No further relevant information available**8 Exposure controls/personal protection****.Additional information about design of technical systems:** No further data; see item 7.**.Additional information:** The lists that were valid during the creation were used as basis.**.Exposure controls****.Personal protective equipment:****.General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

.Breathing equipment: Not required.**.Protection of hands:**

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.**Trade name:** Washable ink**9 Physical and chemical properties**

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.Information on basic physical and chemical properties	
.General Information	
.Appearance:	
Form:	Fluid
Color:	Red
.Odor:	Odorless
.Odor threshold:	Not determined.
.PH-value at 20 °C (68°F)	3-10
.Change in condition:	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
.Flash Point:	> 93 °C (> 199 °F)
.Flammability (solid, gaseous):	Not applicable
.Ignition temperature:	
Decomposition temperature:	Not determined
.Auto igniting:	Not determined
.Danger of explosion:	Product does not present an explosion hazard
.Explosion limits:	
Lower:	Not determined
Upper:	Not determined
.Vapor pressure:	Not determined
.Density:	Not determined
.Relative density	Not determined
.Vapor density	Not determined
.Evaporation rate	Not determined
.Solubility in/ Miscibility with	
Water:	Easily soluble
.Partition coefficient(n-Octanol/ water) :	Not determined
.Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined
.Other information	No further relevant information available

10 Stability and reactivity

.Reactivity: No further relevant information available

.Chemical stability

.Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications

.Possibility of hazardous reactions: No dangerous reactions known.

.Conditions to avoid: No further relevant information available.

.Incompatible materials: No further relevant information available.

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.Hazardous decomposition products: No dangerous decomposition products known.**11 Toxicological information****.Information on toxicological effects****.Acute toxicity:****.LD/ LC50** values that are relevant for classification:**56-81-5 glycerol**

Oral	LD50	12600 mg/ kg (rat)
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.Primary irritant effect:**.On the skin:** No irritant effects known.**.On the eye:** No irritating effects known.**.Sensitization:** No sensitizing effects known.**.Additional toxicological information:**

The product is not subject classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories**.IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

.NTP (National Toxicology Program)

None of the ingredients is listed.

.OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information**.Toxicity****.Aquatic toxicity:** No further relevant information available.**.Persistence and degradability:** No further relevant information available.**.Behavior in environmental systems:****.Bioaccumulative potential:** No further relevant information available.**.Mobility in soil:** No further relevant information available.**.Additional ecological information:****.General notes:**

Water hazard class 1 (self-assessment) : slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

.Results of PBT and vPvB assessment**.PBT:** Not applicable**.vPvB:** Not applicable.

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.Other adverse effects: No further relevant information available.

13 Disposal considerations

.Waste treatment methods

.Recommendation: Smaller quantities can be disposed of with household waste.

.Uncleaned packagings:

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

14 Transport information

.UN-Number	
.DOT, ADR, ADN, IMDG, IATA	Void
.UN proper shipping name	
.DOT, ADR, ADN, IMDG, IATA	Void
.Transport hazard class(es)	Transported by AIR, as a non-hazardous material under the current 56 th edition 2015 of the IATA Dangerous Goods Regulations
.DOT, ADR, ADN, IMDG, IATA	
.Class	
.Packing group	
.DOT, ADR, ADN, IMDG, IATA	Void
.Environmental hazards:	Not applicable.
.Special precautions for user	Not applicable
.Transport in bulk according to Annex II of MARPOL 73/78 and The IBC Code	Not applicable
.UN " Model Regulation"	Void

15 Regulatory information

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

.Sara

.Section 355 (extremely hazardous substances):

None of the ingredients is listed.

.Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

.TSCA (Toxic substances Control Act):

All ingredients are listed.

.Proposition 65

.Chemicals known to cause cancer:

None of the ingredients is listed.

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.Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

.Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

.Chemicals known to cause developmental toxicity:

None of the ingredients is listed

.Carcinogenic categories

.EPA(Environmental Protection Agency)

None of the ingredients is listed

.TIV(Threshold Limit Value established by ACGIH)

None of the ingredients is listed

.NIOSH-Ca(National Institute for Occupational Safety and Health)

None of the ingredients is listed

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

This safety data sheet (SDS) (6615)351-1932-1 is prepared upon applicant Shanghai Ink Solver Industry Co., Ltd's request: However, no SDS of ingredients was provided by the applicant. And no further testing data provided. Therefore, this document is compiled in accordance with what we obtained.

.Date of preparation/ last revision 1/4/2016**.Abbreviations and acronyms:**

ADR: Accord europeen 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

DOT: US Department of Transportation

LATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

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LD50: *Lethal dose, 50percent*

PBT: *Persistent, Bioaccumulative and Toxic*

VPvB: *very Persistent and very Bioaccumulative*

NIOSH: *National Institute for Occupational Safety*

OSHA: *Occupational Safety & Health*