

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name MARKERS DUAL TIP 18PC AL
Revision date 07-07-2011
Version # 01
CAS # Mixture
Product code SKU 396373
Product use Mark, draw.
Manufacturer SUPERSTRONG STATIONERY MANUFACTURING CO.,TLD.
ACROSS WEST INDUSTRY GARDEN OF GUANHAIWEI TOWN
CIXI CITY,ZHEJIANG PROVINCE,CHINA
Telephone number: 0574-87810989
Contact Person: Cherry
E-mail: cherry886@126.com
Emergency Supplier 0574-87810989
Ningbo Conda Imp & Exp Co.,Ltd
4F,No.12,Building 6,Lane 299,Guanghua Rd.
Hi-tech Industrial Development Zone
Ningbo315103,Zhejiang, China
Telephone number: 86-574-89076801/6802
Contact Person: Ashley Shi/Zoe Zhao
E-mail ashleyshi@china-conda.com/tinachen@china-conda.com
Emergency 86-574-89076801/6802

2. Hazards Identification

Physical state Liquid.
Appearance Oil color ink. Various colors.
Emergency overview WARNING
Flammable liquid and vapor. Causes skin, eye and respiratory tract irritation.
OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects
Routes of exposure Ingestion. Skin contact. Eye contact.
Eyes Under normal conditions of intended use, this material does not pose a risk to health. Causes eye irritation on direct contact.
Skin Health injuries are not known or expected under normal use. Contact causes skin irritation.
Inhalation Due to the physical form of the product, the ingredients are not expected to present a hazard by inhalation.
Ingestion Not relevant, due to the form of the product.
Chronic effects None known.
Potential environmental effects The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
1-PROPANOL, 2-METHYL-	78-83-1	0-80
C.I. Solvent Yellow 21 (Chromium(III) compounds)	5601-29-6	0-80

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Eye contact	Immediately flush eye(s) with plenty of water. Get medical attention if irritation develops and persists.
Skin contact	Get medical attention if irritation develops or persists.
Inhalation	Due to the physical form of the product, the ingredients are not expected to present a hazard by inhalation. If symptomatic, move to fresh air.
Ingestion	Rinse mouth thoroughly. Get medical attention if any discomfort continues.
Notes to physician	In case of shortness of breath, give oxygen. Symptoms may be delayed.

General advice

If you feel unwell, seek medical advice (show the label where possible). In case of shortness of breath, give oxygen. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.

Protection of firefighters

Protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
--	---

Fire fighting equipment/instructions

Move containers from fire area if you can do it without risk.

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Wipe up spilled material and place in a suitable container for disposal.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Avoid contact with eyes. Wash thoroughly after handling.

Storage

Keep container tightly closed. Keep away from ignition, flame and heat sources.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
1-PROPANOL, 2-METHYL-(78-83-1)	TWA	50 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
1-PROPANOL, 2-METHYL-(78-83-1)	PEL	100 ppm
C.I. Solvent Yellow 21 (Chromium(III) compounds) (5601-29-6)	PEL	300 mg/m ³ 0.5 mg/m ³

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
1-PROPANOL, 2-METHYL-(78-83-1)	TWA	50 ppm
		152 mg/m ³

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
C.I. Solvent Yellow 21 (Chromium(III) compounds) (5601-29-6)	TWA	0.5 mg/m ³

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
1-PROPANOL, 2-METHYL- (78-83-1)	TWA	50 ppm

Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
1-PROPANOL, 2-METHYL- (78-83-1)	TWA	50 ppm
C.I. Solvent Yellow 21 (Chromium(III) compounds) (5601-29-6)	TWA	150 mg/m ³ 0.5 mg/m ³

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value
1-PROPANOL, 2-METHYL- (78-83-1)	TWA	50 ppm 152 mg/m ³

Mexico. Occupational Exposure Limit Values

Components	Type	Value
1-PROPANOL, 2-METHYL- (78-83-1)	STEL	225 mg/m ³
	TWA	75 ppm 150 mg/m ³ 50 ppm

Engineering controls Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Use explosion-proof ventilation equipment. Provide easy access to water supply or an emergency shower.

Personal protective equipment

Eye / face protection Wear goggles/face shield.

Skin protection Risk of contact: Wear protective gloves. Butyl rubber gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier. Wear suitable protective clothing. Anti-static and flame-retardant protective clothing is recommended.

Respiratory protection As supplied, respiratory protection is not typically required during normal use and handling operation.

General hygiene considerations Wash hands after handling. Launder contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice. Observe any medical surveillance requirements.

9. Physical & Chemical Properties

Appearance Oil color ink. Various colors.

Color Variable in color.

Odor Alcoholic.

Odor threshold Not available.

Physical state Liquid.

Form Liquid.

pH Not available.

Melting point Not available.

Freezing point Not available.

Boiling point Not available.

Flash point	Not available.
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	Not available.
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Stable.
Conditions to avoid	None known.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components

Test Results

1-PROPANOL, 2-METHYL- (78-83-1)

Acute Dermal LD50 Rabbit: 3392 mg/kg
Acute Inhalation LC50 Rat: 8000 mg/l 4 Hours
Acute Oral LD50 Rat: 3100 mg/kg

Acute effects	Under normal conditions of intended use, this material does not pose a risk to health.
Sensitization	Not a skin sensitizer.
Carcinogenicity	Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

C.I. Solvent Yellow 21 (Chromium(III) compounds) (CAS 5601-29-6) 3 Not classifiable as to carcinogenicity to humans.

12. Ecological Information

Ecotoxicity	Not expected to be harmful to aquatic organisms.
Environmental effects	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence and degradability	Not available.
Bioaccumulation / Accumulation	No data available.
Partition coefficient (n-octanol/water)	Not available.
Mobility in environmental media	No data available.

13. Disposal Considerations

Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations.
-----------------------	--

Waste from residues / unused products Dispose in accordance with applicable federal, state, and local regulations.

14. Transport Information

Product Specific Note: Not relevant, due to the form of the product.

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

C.I. Solvent Yellow 21 (Chromium(III) compounds) (CAS 1.0 % N090 5601-29-6)

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

1-PROPANOL, 2-METHYL-: 5000

C.I. Solvent Yellow 21 (Chromium(III) compounds): 10

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A) No

Section 311/312 (40 CFR 370) No

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15) Not controlled

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification B2 - Flammable/Combustible
D2B - Other Toxic Effects-TOXIC

WHMIS labeling



Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

US - California Hazardous Substances (Director's): Listed substance

1-PROPANOL, 2-METHYL- (CAS 78-83-1) Listed.
C.I. Solvent Yellow 21 (Chromium(III) compounds) (CAS 5601-29-6) Listed.

US - Massachusetts RTK - Substance: Listed substance

1-PROPANOL, 2-METHYL- (CAS 78-83-1) Listed.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

C.I. Solvent Yellow 21 (Chromium(III) compounds) (CAS 5601-29-6) 500 LBS

US - New Jersey RTK - Substances: Listed substance

1-PROPANOL, 2-METHYL- (CAS 78-83-1) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

1-PROPANOL, 2-METHYL- (CAS 78-83-1) Listed.

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1*
Flammability: 2
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 2
Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

Issue date

07-07-2011