

Section 1. Identification of the substance/mixture and of the company

1.1	Product Identifier:	
	Product Name	: CENTURY'S TEXTILE MARKER
	Product Code	:
	Colours	: Yellow / Green / Red / Blue / Black
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Recommended Use	: Solvent Based Marker
		:
1.3	Details of the supplier of the safety data sheet	
	Address: CENTURY INKS PVT. LTD., A/14, BONANZA IND. EST., MUMBAI - 400101.	
	Email : info@centurymarkers.com	
	Emergency Contact No.: +91-22-28875432	

Section 2. Hazards identification

2.1. - Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3

Physical Hazards

Flammable liquids	Category 3
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The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Symbol(s)	Xi - Irritant F - Highly flammable
R-code(s)	F;R11 - Xi;R36 - R43 - R66 - R67

2.2. Label Elements



Signal Word

Danger

H303 - May be harmful if swallowed
H313 - May be harmful in contact with skin
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H333 - May be harmful if inhaled
H336 - May cause drowsiness or dizziness
H225 - Highly flammable liquid and vapor
EUH066 - Repeated exposure may cause skin dryness or cracking
EUH210 - Safety data sheet available on request

Precautionary Statements - EU (§28, 1272/2008)

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/ attention
P272 - Contaminated work clothing should not be allowed out of the workplace
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention
P321 - Specific treatment (see supplemental first aid instructions on this label)

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P271 - Use only outdoors or in a well-ventilated area
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
P330 - Rinse mouth
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P363 - Wash contaminated clothing before reuse
P501 - Dispose of contents/ container to an approved waste disposal plant
P322 - Specific measures (see supplemental first aid instructions on this label)
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P240 - Ground/Bond container and receiving equipment
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower
P403 + P235 - Store in a well-ventilated place. Keep cool

Section 3. Composition/information on ingredients

3.1. Substances: Not applicable

3.2. Mixtures: Chemical Name

Chemical Name	CAS-No	Weight %	Classification	EU - GHS Substance Classification	REACH No.
Titanium dioxide	13463-67-7	10 - 30	-	-	Not Available
Ethylene Vinyl Acetate Copolymer	24937 -78-8	10 - 25	-	-	Not Available
Ethyl Acetate	141-78-6	10-30	R11, R36, R66, R67, Xi, F	H225 Highly flammable liquid H319 Causes serious eye irritation H336 May cause drowsiness or dizziness EUH066 Repeated exposure may cause skin dryness or cracking	Not Available
Methyl Ethyl Ketone	78-93-3	10-30	F; R11 Xi; R36 R66 R67	(EUH066) Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye irritation 2 (H319)	Not Available
Cyclohexanone	108-94-1	10-30	R10 Xn; R20	Flam. Liq. 3 (H226) Acute Tox. 4 (H332)	Not Available
Pigment Yellow 12	6358-85-6	2 - 8	-	-	Not Available

Section 4. First aid measures

4.1. Description of first-aid measures

General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Keep eye wide open while rinsing.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Ingestion	Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
Protection of First-aiders	Remove all sources of ignition. Use personal protective equipment.
4.2. Most important symptoms and effects, both acute and delayed	
Most Important Symptoms / Effects	No information available.
4.3. Indication of immediate medical attention and special treatment needed	
Notes to Physician	Treat symptomatically.
Section 5. Fire-fighting measures	
5.1. Extinguishing media	
Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO ₂). Foam.
Extinguishing media which must not be used for safety reasons	No information available.
5.2. Special hazards arising from the substance or mixture	
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).	
5.3. Advice for firefighters	
Special protective equipment for fire-fighters: As in any fire, wear self-contained breathing apparatus and full protective gear.	
Section 6. Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures: Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Stop leak if you can do it without risk.	
6.2. Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system	
6.3. Methods and materials for containment and cleaning up: Small spillage: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Large spillage: Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product.	
Section 7. Handling and storage	
7.1. Precautions for Safe Handling	
Handling: Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Avoid contact with skin, eyes and clothing. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.	
Hygiene Measures: When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.	

7.2. Conditions for safe storage, including any incompatibilities

Keep away from open flames, hot surfaces and sources of ignition. Keep away from incompatible materials. Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children. Keep container closed when not in use.

7.3. Specific end use(s)**Exposure Scenario**

No information available

Section 8. Exposure controls/personal protection

8.1. Control parameters**Exposure Limits**

Chemical Name	EU	Min	Max
Titanium dioxide (CAS: 13463-67-7)	-	TWA: 4 mg/m ³ (IRELAND) MAK: 3 mg/m ³ (Switzerland)	TWA: 10 mg/m ³ (Portugal)
Ethylene Vinyl Acetate Copolymer (CAS: 24937 -78-8)	3 mg/m ³	-	-
Ethyl Acetate (CAS: 141-78-6)	400 ppm TWA; 1400 mg/m ³ TWA	-	-
Methyl Ethyl Ketone (CAS: 78-93-3)	200 PPM TWA 590 mg/m ³	-	-
Cyclohexanone (CAS: 108-94-1)	TWA 10 ppm TWA 40.8 mg/m ³ STEL 20 ppm STEL 81.6 mg/m ³	TWA 10 ppm TWA 40.8 mg/m ³ STEL 20 ppm STEL 81.6 mg/m ³	TWA: 20 ppm TWA: 80 mg/m ³ Skin STEL: 30 ppm STEL: 120 mg/m ³ (NORWAY)
Pigment Yellow 12 (CAS: 6358-85-6)	1 mg/m ³	-	-

Derived No Effect Level

No information available

Predicted No Effect Concentration (PNEC)

No information available

8.2. Exposure controls**Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment**Eye Protection**

Safety glasses with side-shields. If splashes are likely to occur, wear: Chemical splash goggles.

Skin and Body Protection

Risk of contact: Boots. Apron

Hand Protection

Risk of contact: Chemical resistant gloves

Respiratory Protection

No special protective equipment required. If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Environmental Exposure Controls

Do not allow material to contaminate ground water system.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Physical State	Liquid
Appearance	Thick viscosity, opaque, varies.
Odor	Mild pungent

Property	Values
pH	No data available
Melting Point/Range	No data available
Boiling Point/Boiling Range	65-157.78 °C
Flash Point	-1 °C
Evaporation rate	> 1 (BuAc = 1)
Flammability (solid, gas)	No data available
Vapor Pressure	No data available
Vapor Density	> 1 (air = 1)
Relative Density	> 1 @ 70°F
Water Solubility	Negligible
Solubility in other solvents	Dilutable with Ketone & Ester solvents.
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Flammable Properties	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
Explosive Properties	No data available
Oxidizing Properties	No data available
9.2. Other information	
VOC Content (%)	45 - 55
VOC (g/l)	470 - 530
Flammability Limits in Air	No information available.
Section 10. Stability and reactivity	
10.1. Reactivity No data available.	
10.2. Chemical stability Stable under normal conditions.	
10.3. Possibility of hazardous reactions None under normal processing.	
10.4. Conditions to avoid Heat, flames and sparks. Incompatible products.	
10.5. Incompatible materials Strong oxidizing agents. Strong reducing agents. Strong alkalis. Strong acids.	
10.6. Hazardous decomposition products Carbon oxides. Soot. Smoke	
Section 11. Toxicological information	
Acute Toxicity	
Inhalation	May be harmful if inhaled. May cause drowsiness and dizziness. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal
Eye Contact	Causes serious eye irritation.
Skin Contact	May be harmful in contact with skin. May cause irritation.

Ingestion		May be harmful if swallowed.	
Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rat)	---
Ethylene Vinyl Acetate Copolymer	> 1000 mg/kg (Rat)	---	---
Ethyl Acetate	>2000 mg / Kg (Rabbit)	>2000 mg / Kg (Rabbit)	>19600 mg/M3 / 8H (Rat)
Methyl Ethyl Ketone	2737 mg/kg (Rat)	LD50 = 6480 mg/kg (Rabbit)	23500 mg/m3/8H (Rat)
Cyclohexanone	800 mg/kg (Rat)	948 mg/kg (Rabbit)	10.7 mg/L (Rat) 4 h 8000 ppm (Rat) 4 h
Pigment Yellow 12	980 mg/Kg (Rat)	>1700 mg/Kg	>4000 mg/M3/8H (Rat)

Sensitization	May cause an allergic skin reaction
Mutagenic Effects	No information available.
Carcinogenic Effects	No information available.
Reproductive Toxicity	No information available.
Developmental Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organ Effects	Central nervous system (CNS). Eyes. Kidney. Liver. Lungs. Lymphatic system. Respiratory system. Skin.
Aspiration Hazard	No information available.

Section 12. Ecological information

12.1. Toxicity

Eco toxicity Effects:

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Titanium dioxide	EC50/LC50 = 61 mg/L /72H	LC50 = 1000 mg/L/96 H	-----	EC50/LC50 = 1000 mg/L /72H
Ethylene Vinyl Acetate Copolymer	Not Available	Not Available	Not Available	Not Available
Ethyl Acetate	EC50: > 100 mg/l, 72 h, Desmodesmus subspicatus (green algae), static test, (literature value)	LC50,> 100 mg/l, 96 h	-----	EC50: >100 mg/l, 48 h
Methyl Ethyl Ketone	Value: > 100 mg/l Method of testing: LL/EL/IL50	Value: > 100 mg/l Method of testing: LL/EL/IL50		Value: > 100 mg/l Method of testing: LL/EL/IL50
Cyclohexanone	EC50 96 h: = 20 mg/L (Chlorella vulgaris)	LC50 96 h: 481-578 mg/L flow-through (Pimephales promelas) LC50 96 h: = 8.9 mg/L (Pimephales promelas)	EC50 = 18.5 mg/L 5 min EC50 = 21.3 mg/L 10 min EC50 = 25 mg/L 5 min	EC50 24 h: = 800 mg/L (Daphnia magna)
Pigment Yellow 12	Non Toxic	Non Toxic	Non Toxic	Non Toxic

12.2. Persistence and degradability			
No information available			
12.3. Bio accumulative potential.			
Chemical Name		Log Pow	
Methyl Ethyl Ketone		0.61	
Cyclohexanone		0.86	
Ethyl Acetate		0.73	
12.4. Mobility in soil: Adsorbs on soil.			
12.5. Results of PBT and vPvB assessment: No information available			
12.6. Other adverse effects			
Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
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Section 13. Disposal considerations			
13.1. Waste treatment methods			
Waste from Residues / Unused Products	Dispose of in accordance with local regulations.		
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.		
Other Information	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.		
Section 14. Transport information			
IMDG/IMO			
14.1. UN-Number	UN1263		
14.2. Proper Shipping Name	Paint		
14.3. Hazard Class	3		
14.4. Packing Group	II		
Description	UN1263, Paint, 3, II, (-1°C c.c.)		
14.5. Marine Pollutant	None.		
14.6. Special Provisions	None.		
EmS No.	F-E, S-E		
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available		
RID			
14.1. UN-Number	UN1263		
14.2. Proper Shipping Name	Paint		
14.3. Hazard Class	3		
14.4. Packing Group	II		
Description	UN1263, Paint, 3, II		
14.5. Environmental hazard	None.		
14.6. Special Provisions	None.		
Classification Code	F1		
ADR			
14.1. UN-Number	UN1263		
14.2. Proper Shipping Name	Paint		
14.3. Hazard Class	3		

14.4. Packing Group	II
Description	UN1263, Paint, 3, II (D/E)
14.5. Environmental hazard	None.
14.6. Special Provisions	None.
Classification Code	F1
Tunnel Restriction Code	D/E

ICAO

14.1. UN-Number	UN1263
14.2. Proper Shipping Name	Paint
14.3. Hazard Class	3
14.4. Packing Group	II
Description	UN1263, Paint, 3, II
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

IATA

14.1. UN-Number	UN1263
14.2. Proper Shipping Name	Paint
14.3. Hazard Class	3
14.4. Packing Group	II
Description	UN1263, Paint, 3, II
14.5. Environmental hazard	None.
14.6. Special Provisions	None.
ERG Code	3L

Section 15. Regulatory information

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

International Inventories

TSCA -
EINECS/ELINCS -
DSL/NDSL -
PICCS -
ENCS -
IECSC -
AICS -
KECL -

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No information available

Section 16. Other information

Full text of R-phrases referred to under Sections 2 and 3

- R10 - Flammable
- R67 - Vapors may cause drowsiness and dizziness
- R20 - Harmful by inhalation
- R11 - Highly flammable
- R66 - Repeated exposure may cause skin dryness or cracking
- R36 - Irritating to eyes
- R43 - May cause sensitization by skin contact

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- R36/38 - Irritating to eyes and skin
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under sections 2 and 3

- H226 - Flammable liquid and vapor
- H336 - May cause drowsiness or dizziness
- H332 - Harmful if inhaled
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H317 - May cause an allergic skin reaction
- H411 - Toxic to aquatic life with long lasting effects
- H225 - Highly flammable liquid and vapor
- H303 - May be harmful if swallowed
- H313 - May be harmful in contact with skin
- H333 - May be harmful if inhaled
- EUH066 - Repeated exposure may cause skin dryness or cracking
- EUH210 - Safety data sheet available on request

Issuing Date	20.01.2016
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This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006

Disclaimer:

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.
