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This document complies with the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico's NMX-R-019-SC-2011.

1. Identification of the Substance/Preparation and the Company Undertaking

GHS Product Identifier

Product Form/Description:	Marking Pens
Product Name:	
Synonyms	High Temperature Marker

Other Means of Identification

Part Number:

Colors and Temperature	Black 2000°F (1093°C)	Blue 2000°F (1093°C)	Aluminum 1200°F (648°C)	White 900°F (482°C)	Orange 1200°F (648°C)	Red 1400°F (760°C)	Green 1400°F (760°C)	Yellow 2000°F (1093°C)
PM-92HT	92170	92110	N/A	92150	N/A	N/A	N/A	92160
PM-19HT	08170	08110	08520	08150	08180	08111	08050	08160
MM-99HT	99170	99110	N/A	99150	N/A	N/A	N/A	99160
PM-34	00134	00234	01234	01334	N/A	N/A	N/A	01434

Formula Code:

Black	Blue	Aluminum	White	Orange	Red	Green	Yellow
XV-1024	XV-11166	XV-12575	XV-11157	XV-12630	XV-11144	XV-12579	XV-11159

Black (Pump Pen)	Blue (Pump Pen)	White (Pump Pen)	Yellow (Pump Pen)
XV-12981	XV-12979	XV-12591	XV-12980

Recommended use of the chemical and restrictions on use

Recommended Use	Marking at cold or room temperature with intent to bring substrate to High temperatures.
Uses Advised Against:	Marking hot surfaces.

Supplier's Details

Supplier Address	Century Inks Pvt Ltd A/14, Bonanza Indl. Est., A.C. Road, Kandivali (E) Mumbai – 400101 Ph : +91 22 42643060 Email: info@centurymarkers.com
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Emergency Telephone Number

Chemtrec	+91 22 42643060	+91 22 42643060
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2. HAZARD IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communications Standard 2012 (29 CFR 1910.1200):

Flammable Liquid Category	3
Skin Corrosion/Irritation Category	2
Serious eye damage/Eye Irritation Category	2A
Acute Toxicity Inhalation Category	4
Acute Toxicity Skin Category	4
Aspiration Hazard Category	1

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Carcinogenicity Inhalation Category	2
Specific target Organ Toxicity (single Exposure) respiratory tract irritation Category	3
Specific target Organ Toxicity (repeated Exposure) Inhalation Category	2

GHS Label Elements, including precautionary statements


Signal Word: Danger

Appearance:	Opaque, varies
Physical state:	Thin viscosity liquid
Odor:	Aromatic Odor

Hazard Statements:

Code	Statement
H315	Causes skin irritation. Causes serious eye irritation.
H335	May cause respiratory irritation.
H332	Harmful if inhaled.
H312	Harmful in contact with skin.
H304	May be fatal if swallowed and enters airways.
H372	May cause damage to organs through prolonged or repeated exposure by inhalation.
H351	Suspected of causing cancer if inhaled.
H226	Flammable liquid and vapor.

Precautionary Statements:

Prevention	Response	Storage	Disposal
Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Keep container tightly closed Use only in a well ventilated area. Do not breathe dust/vapors/fumes Wash face and hands and any exposed skin thoroughly after handling. Wear protective gloves/clothing/eye protection/face protection. Keep away from heat/sparks/flame hot surfaces – no smoking. Use explosion proof electrical/ventilating/lighting equipment Use non-sparking tools. Take precautionary measures against static discharge.	If exposed or concerned: get medical attention/advice. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Do not induce vomiting. In case of fire: Use CO ₂ , dry chemical, foam or water spray to extinguish.	Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.	Dispose of contents/container in approved waste disposal plant.

General Advice

If exposed or concerned:	Get medical attention/advice
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ACUTE HAZARD:	At high concentration, dizziness and unconsciousness may occur.
CAUTION:	Contains xylene. Harmful or fatal if swallowed. Avoid inhalation. Direct contact may cause skin or eye irritation.

KEEP OUT OF REACH OF CHILDREN.

Fire	Use CO2, dry chemical, foam, or water spray
Spills and Leaks	Contain and collect spillage
Hazard not Otherwise Classified (HNOC)	Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous substance(s) or Complex Substance(s) required for disclosure

<u>Chemical Name</u>	<u>CAS -No</u>	<u>Weight %</u>	<u>Trade Secret</u>
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	64742-95-6	1-10%	*
PSEUDOCUMENE (1,2,4-TRIMETHYLBENZENE)	95-63-6	< 1%	*
XYLENES	1330-20-7	< 1%	*
MINERAL SPIRITS	8052-41-3	1-5%	*
QUARTZ	14808-60-7	1-5 %	*
COLORANTS	Proprietary	1-10%	*
RESINS	Proprietary	5-40%	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

General Advice	In case of doubt, or when symptoms persist, seek medical attention.
Eye Contact	Immediately flush eyes with plenty of water for at least fifteen (15) minutes. Get medical attention immediately.
Skin Contact	Flush skin with plenty of water. Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleanser.
Inhalation:	Remove to fresh air, keep patient warm and at rest. If breathing is irregular seek medical advice. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.
Ingestion:	Seek medical attention immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.
Protection of First Aiders:	Use personal protection equipment.

Most important symptoms/effects, acute and delayed

Most important symptoms/effects	No information available
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Indication of immediate medical attention and special treatment needed, if necessary

Note to physician	Treat symptomatically
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, carbon dioxide, and regular foam. For large fires, use foam or flood with fine water spray

Unsuitable Extinguishing media

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No information available

Specific Hazards arising from the chemical

Flash Point:	70°F
Flammability Limits (% by volume):	Lower – 1.1%; Upper – 6.4%
Unusual Fire Explosion Hazards:	none

Protective Equipment and Precautions for Firefighters

Wear appropriate self-contained breathing apparatus MSHA/NIOSH (approved or equivalent) and full protective gear. Cool closed containers exposed to fire with water spray. Avoid inhalation of material or combustion by-products; stay upwind.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Avoid breathing vapors. Evacuate personnel to safe areas. Ensure adequate ventilation.
Environmental Precautions:	Avoid release into the environment. Do not allow entrance to drains or water-courses.

Methods and materials for containment and cleaning up

Methods for Containment:	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Contain the spillage with non-combustible absorbent materials such as sand, earth, vermiculite, and diatomaceous earth. This will soak up the product. Place in a suitable container for disposal in accordance with the waste regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling	Avoid skin and eye contact. Avoid the inhalation of vapor and mist.
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Conditions for safe storage, including any incompatibilities

Storage	Keep away for open flame, hot surfaces and sources of ignition. Keep containers tightly closed. Observe label precautions. Store between 5-25° C in a dry, well ventilated place. Prevent unauthorized access.
Incompatible products	Unknown

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines:

<u>Chemical Name</u>	<u>CAS #</u>	<u>OSHA PEL</u>
Solvent Naptha (Petroleum), Light Aromatic	64742-95-6	TWA 100 ppm TWA 435mg/m3 STEL 150 ppm TWL 100 ppm
Pseudocumene (1,2,4-Trimethylbenzene)	95-63-6	TWA 100 ppm TWA 435mg/m3 STEL 150 ppm TWL 100 ppm

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Xylene	1330-20-7	TWA 100 ppm TWA 435mg/m3 STEL 150 ppm TWL 100 ppm Vacated TWA 100 ppm Vacated TWA 435 mg/m3 Vacated STEL 150 ppm
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Appropriate engineering controls

Engineering Measures	Showers, eyewash stations, ventilation systems
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Individual protection measures, such as personal protective equipment

Eye/Face protection	None under normal use conditions
Skin and body Protection	None under normal use conditions
Respiratory Protection	None under normal use conditions. If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn
Hygiene Measures	Use in a well-ventilated area. When using do not eat, drink, or smoke. Provide regular cleaning of equipment, work areas and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES







Information on basic physical and chemical properties

<u>Property</u>	<u>Value</u>	<u>Remarks/Method</u>
Physical State:	Liquid	None Known
Appearance and Odor:	Opaque, thin viscosity liquid with aromatic odor.	None Known
Odor Threshold:	No Data	None Known
Vapor Density (AIR = 1):	Greater than one (1)	None Known
Vapor Pressure (mm-Hg @ 70°F):	No Data	None Known
Flash Point:	No Data	Tag closed cup
Specific Gravity (H2O=1) @70°F:	>1	None Known
Flammability:	No Data	None Known
Auto-ignition Temperature:	No Data	None Known
Decomposition Temperature:	No Data	None Known
Melting Point:	No Data	None Known
Freezing Point:	No Data	None Known
Boiling Point:	282 to 286°F	None Known
Relative Evaporation Rate (Butyl Acetate = 1):	Less than one (1)	None Known
Solubility in Water:	Negligible	None Known
Log Pow:	No Data	None Known
PH:	No Data	None Known
Viscosity (Kinematic):	No Data	None Known
Viscosity (Dynamic):	No Data	None Known
Explosive limits	No Data	None Known
Explosive Properties	No Data	None Known
Oxidizing Properties	No Data	None Known
Volatile Organic Compound:	See Table Below	None Known

Volatile Organic Compounds

<u>Color</u>	<u>Formula</u>	<u>Percentage</u> (% by weight)	<u>Parts Per Gallon</u>	<u>g/L</u>
Black	XV-1024	65.59	5.31	636.61
Blue	XV-11166	56.04	5.40	647.38
Aluminum	XV-12575	73.19	5.71	684.1
White	XV-11157	51	5.32	637.4
Orange	XV-12630	58.9	5.62	673.0
Red	XV-11144	66.65	5.28	632.5
Green	XV-12579	58.81	5.59	666.6
Yellow	XV-11159	57.59	5.99	702.1
Black (Pump Pen)	XV-12981	65.59	5.31	636.61

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UN proper shipping name	Paint related material	Paint related material	Paint related material	Paint related material	Paint related material	Paint related material
Transport Hazard Class(es)						
Packing Group	3	3	3	3	3	3
Environmental Hazards	No.	No.	No.	No.	No.	No.
Additional Information	<u>Limited quantity:</u> Yes. <u>Packaging instruction</u> <u>Passenger aircraft</u> Quantity limitation: 60 L <u>Cargo aircraft</u> Quantity limitation: 220 L <u>Special provisions</u> B1, B52, IB3, T2, TP1	<u>Explosive Limit and Limited Quantity Index</u> 5 <u>Passenger Carrying Road or Rail Index</u> 60	<u>Special provisions:</u> 223	<u>Hazard identification number</u> 30 <u>Limited quantity</u> 5 L Special provisions 640E Viscous substance exemption This class 3 material can be considered non hazardous in packagings up to 450 L. Exempted according to 2.2.3.1.5 (Viscous substance exemption) Tunnel code (D/E)	<u>Emergency schedules (EmS)</u> F-E, _S-E_ <u>Special provisions</u> 223, 955 Viscous substance exemption This class 3 material can be considered non hazardous in packagings up to 30 L. Exempted according to 2.3.2.5 (Viscous substance exemption)	<u>Passenger and Cargo Aircraft</u> <u>Quantity limitation:</u> 60 L <u>Packaging instructions:</u> 355 <u>Cargo Aircraft</u> <u>Only Quantity limitation:</u> 220 L <u>Packaging instructions:</u> 366 <u>Limited Quantities - Passenger Aircraft</u> <u>Quantity limitation:</u> 10 L <u>Packaging instructions:</u> Y344 <u>Special provisions</u> A3

Special Precautions for User:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
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15. REGULATORY INFORMATION

TSCA INVENTORY:	The product on this SDS is not listed on the Toxic Substances Control Act Inventory. All ingredients used to manufacture this product are listed on the TSCA Inventory.
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US Regulatory Rules:

Section 313 or Title III of SARA. This product contains a chemical, which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations Part 372.

Solvent Naptha (Petroleum), Light Aromatic	64742-95-6
Pseudocumene (1,2,4-Trimethylbenzene)	95-63-6
Xylene	1330-20-7

Hazard categories

Acute Health Hazard	YES
Chronic Health Hazard	YES
Fire Hazard	YES
Sudden release of Pressure Hazard	NO
Reactive Hazard	NO

State Regulation

California Proposition 65	Xylene Listed
Massachusetts Right to know List	Xylene 1330-20-7 Listed
New Jersey Right to Know	Xylene 1330-20-7 Listed

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Pennsylvania Right to Know	Xylene 1330-20-7 Listed
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16. OTHER INFORMATION

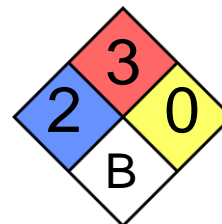
HMIS CLASSIFICATION

Health Hazard:	2
Flammability:	3
Physical Hazard:	0
PPE	Splash Goggles, Gloves, Apron, Vapor Respirator

Health Hazard: 2
Flamability: 3
Physical Hazard: 0
Personal Protection: B

NFPA CLASSIFICATION

Health Hazard	2
Flammability	3
Reactivity	0
Personal Protection	B



End of Safety Data Sheet