



SAFETY DATA SHEET

This safety data sheet complies with the requirements of Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No. 1907/2006

Issuing Date 23-Mar-2016

Revision Date 26-Jul-2018

Revision Number 1

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

1.1. Product identifier

Product Code(s) A10 #10110 Silver, #10114 Gold A20 #10710 Silver, #10714 Gold A30 #10310 Silver

Product Name A10 Paint Marker – A20 Paint Marker with Reversible Tip – A30 Broad Tip Paint Marker – Silver and Gold

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Solvent based marker

Uses advised against Keep away from children.
Not for use on skin.

1.3. Details of the supplier of the safety data sheet

Importer	Supplier
No information available	U-Mark, Inc 102 Iowa Ave. Belleville, IL 62220 TEL: 618-235-7500

For further information, please contact

E-mail Address No information available

1.4. Emergency telephone number

Emergency Telephone Number 24-hour Emergency Phone: Infotrac 1-800-535-5053 (USA & Canada), 1-352-323-3500 (International)

Europe	112
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Section 2. Hazards identification

2.1. - Classification of the substance or mixture

REGULATION (EC) No 1272/2008

This product is an article. No exposure to hazardous chemicals is expected to occur during intended product use. Misuse of the product may result in exposure to hazardous chemical

Physical Hazards

None

2.2. Label Elements

This product is an article. No exposure to hazardous chemicals is expected to occur during intended product use. Misuse of the product may result in exposure to hazardous chemical

Signal Word None

Hazard Statements

None

2.3. Other information

No information available

Section 3. Composition/information on ingredients

3.1. Substances

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification	REACH No.
n-Butyl acetate	204-658-1	123-86-4	40-50	(EUH066) Flam. Liq. 3 (H226) STOT SE 3 (H336)	No data available
Ethyl acetate	205-500-4	141-78-6	35-45	(EUH066) Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)	No data available
Propylene glycol monomethyl ether acetate	203-603-9	108-65-6	0-5	Flam. Liq. 3 (H226)	No data available

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First aid measures

4.1. Description of first-aid measures

General Advice	Under normal conditions of use first aid is not required.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation persists.
Skin Contact	Wash skin with soap and water. Get medical attention if irritation persists.
Ingestion	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
Inhalation	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.2. Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects None known.

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

None.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

None in particular.

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

None required under normal usage.

6.2. Environmental precautions

None under normal use conditions.

6.3. Methods and materials for containment and cleaning up

Not applicable.

Pick up and transfer to properly labeled containers.

6.4. Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage

7.1. Precautions for Safe Handling

Handling

None required under normal usage.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

None normally required.

7.3. Specific end use(s)

Exposure Scenario

No information available.

Other Guidelines

No information available.

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

The following exposure limits are provided for information only; exposure is not expected under normal conditions of use or storage.

Chemical Name	EU	Austria	Belgium	Cyprus	Denmark
n-Butyl acetate 123-86-4		STEL: 100 ppm STEL: 480 mg/m ³ TWA: 100 ppm TWA: 480 mg/m ³ Ceiling: 100 ppm Ceiling: 480 mg/m ³	TWA: 150 ppm TWA: 723 mg/m ³ STEL: 200 ppm STEL: 964 mg/m ³		TWA: 150 ppm TWA: 710 mg/m ³
Ethyl acetate 141-78-6		STEL: 600 ppm STEL: 2100 mg/m ³	TWA: 400 ppm TWA: 1461 mg/m ³		TWA: 150 ppm TWA: 540 mg/m ³

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		TWA: 300 ppm TWA: 1050 mg/m ³			
Propylene glycol monomethyl ether acetate 108-65-6	S* TWA 50 ppm TWA 275 mg/m ³ STEL 100 ppm STEL 550 mg/m ³	STEL: 100 ppm STEL: 550 mg/m ³ TWA: 50 ppm TWA: 275 mg/m ³ Skin	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ Skin	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ Skin	TWA: 50 ppm TWA: 275 mg/m ³ Skin
Chemical Name	Finland	France	Germany	Gibraltar	Greece
n-Butyl acetate 123-86-4	TWA: 150 ppm TWA: 720 mg/m ³ STEL: 200 ppm STEL: 960 mg/m ³	TWA: 150 ppm TWA: 710 mg/m ³ STEL: 200 ppm STEL: 940 mg/m ³	TWA: 100 ppm TWA: 480 mg/m ³ Ceiling / Peak: 200 ppm Ceiling / Peak: 960 mg/m ³ TWA: 62 ppm TWA: 300 mg/m ³ Repr*		TWA: 150 ppm TWA: 710 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³
Ethyl acetate 141-78-6	TWA: 200 ppm TWA: 730 mg/m ³ STEL: 400 ppm STEL: 1470 mg/m ³	TWA: 400 ppm TWA: 1400 mg/m ³	TWA: 200 ppm TWA: 750 mg/m ³ Ceiling / Peak: 400 ppm Ceiling / Peak: 1500 mg/m ³ TWA: 730 mg/m ³ Repr*		TWA: 400 ppm TWA: 1400 mg/m ³
Propylene glycol monomethyl ether acetate 108-65-6	TWA: 50 ppm TWA: 270 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ Skin	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ Skin	TWA: 50 ppm TWA: 270 mg/m ³ Ceiling / Peak: 50 ppm Ceiling / Peak: 270 mg/m ³ Repr*	STEL: 100 ppm STEL: 550 mg/m ³ TWA: 50 ppm TWA: 275 mg/m ³ Skin	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ Skin
Chemical Name	Ireland	Italy	Lithuania	Luxembourg	Malta
n-Butyl acetate 123-86-4	TWA: 150 ppm TWA: 710 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³	TWA: 150 ppm TWA: 713 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³			
Ethyl acetate 141-78-6	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 1441 mg/m ³	TWA: 150 ppm TWA: 500 mg/m ³ Ceiling: 300 ppm Ceiling: 1100 mg/m ³		
Propylene glycol monomethyl ether acetate 108-65-6	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ Skin	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ Skin	TWA: 50 ppm TWA: 250 mg/m ³ STEL: 75 ppm STEL: 400 mg/m ³ Skin	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ Skin	
Chemical Name	The Netherlands	Norway	Poland	Portugal	Spain
n-Butyl acetate 123-86-4		TWA: 75 ppm TWA: 355 mg/m ³ STEL: 112.5 ppm STEL: 443.75 mg/m ³	TWA: 200 mg/m ³ STEL: 950 mg/m ³	TWA: 150 ppm STEL: 200 ppm	TWA: 150 ppm TWA: 724 mg/m ³ STEL: 200 ppm STEL: 965 mg/m ³
Ethyl acetate 141-78-6		TWA: 150 ppm TWA: 550 mg/m ³ STEL: 187.5 ppm STEL: 687.5 mg/m ³	TWA: 734 mg/m ³ STEL: 1468 mg/m ³	TWA: 400 ppm	TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³
Propylene glycol monomethyl ether acetate 108-65-6	TWA: 550 mg/m ³	TWA: 50 ppm TWA: 270 mg/m ³ STEL: 75 ppm STEL: 337.5 mg/m ³ Skin	TWA: 260 mg/m ³ STEL: 520 mg/m ³	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ Skin	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ Skin
Chemical Name	Switzerland		Sweden		The United Kingdom
n-Butyl acetate 123-86-4	STEL: 200 ppm STEL: 960 mg/m ³ TWA: 100 ppm TWA: 480 mg/m ³		LLV: 100 ppm LLV: 500 mg/m ³ Indicative STLV: 150 ppm Indicative STLV: 700 mg/m ³		TWA: 150 ppm TWA: 724 mg/m ³ STEL: 200 ppm STEL: 966 mg/m ³

Ethyl acetate 141-78-6	STEL: 400 ppm STEL: 1460 mg/m ³ TWA: 200 ppm TWA: 730 mg/m ³	LLV: 150 ppm LLV: 500 mg/m ³ Indicative STLV: 300 ppm Indicative STLV: 1100 mg/m ³	TWA: 200 ppm STEL: 400 ppm
Propylene glycol monomethyl ether acetate 108-65-6	STEL: 50 ppm STEL: 275 mg/m ³ TWA: 50 ppm TWA: 275 mg/m ³	LLV: 50 ppm LLV: 275 mg/m ³ Binding STLV: 100 ppm Binding STLV: 550 mg/m ³ Skin	TWA: 50 ppm TWA: 274 mg/m ³ STEL: 100 ppm STEL: 548 mg/m ³ Skin

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures None under normal use conditions.
Personal protective equipment Personal protection equipment should be chosen according to the CEN standards
Eye Protection No protective equipment is needed under normal use conditions.
Skin and Body Protection No protective equipment is needed under normal use conditions.
Hand Protection No protective equipment is needed under normal use conditions.
Respiratory Protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental Exposure Controls None under normal use conditions

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid	Appearance	Varies.
Odor	Alcohol		
<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>	
pH	No data available	None known	
Melting Point/Range	No data available	None known	
Boiling Point/Boiling Range	96 °C / 205 °F	(Liquid Ink only)	
Flash Point	23 °C / 73 °F	(Liquid Ink only)	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air 2.1%		None known 13.5%	
Vapor Pressure	No data available.	None known	
Vapor Density	No data available.	None known	
Relative Density	No data available	None known	
Water Solubility	No data available	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition Temperature	No data available	None known	
Decomposition Temperature	No data available	None known	
Viscosity	No data available	None known	
Explosive Properties	No information available		
Oxidizing Properties	No information available		

9.2. Other information

VOC Content (%) 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

10.4. Conditions to avoid

None known based on information supplied.

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

None under normal use.

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation

None under normal use conditions.

Eye Contact

None under normal use conditions.

Skin Contact

None under normal use conditions.

Ingestion

None under normal use conditions.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
n-Butyl acetate	= 10768 mg/kg (Rat)	> 17600 mg/kg (Rabbit)	= 390 ppm (Rat) 4 h
Ethyl acetate	= 5620 mg/kg (Rat)	> 20 mL/kg (Rabbit) > 18000 mg/kg (Rabbit)	= 4000 ppm (Rat) 4 h
Propylene glycol monomethyl ether acetate	= 8532 mg/kg (Rat)	> 5 g/kg (Rabbit)	

Respiratory or Skin Sensitization

No information available

Mutagenic Effects

No information available

Carcinogenic Effects

Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive Toxicity

No information available

Developmental Toxicity

No information available

STOT - single exposure

No information available

STOT - repeated exposure

No information available

Aspiration Hazard

No information available.

Section 12. Ecological information

12.1. Toxicity

Ecotoxicity Effects

Not Applicable

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
n-Butyl acetate	EC50 72 h: = 674.7 mg/L (Desmodesmus subspicatus)	LC50 96 h: 17 - 19 mg/L flow-through (Pimephales promelas) LC50 96 h: = 100 mg/L static (Lepomis macrochirus) LC50 96 h: = 62 mg/L static (Leuciscus idus)	EC50 = 70.0 mg/L 5 min EC50 = 82.2 mg/L 15 min EC50 = 959 mg/L 18 h EC50 = 98.9 mg/L 30 min	EC50 24 h: = 72.8 mg/L (Daphnia magna)
Ethyl acetate	EC50 48 h: = 3300 mg/L (Desmodesmus subspicatus)	LC50 96 h: 220 - 250 mg/L flow-through (Pimephales promelas) LC50 96 h: 352 - 500 mg/L semi-static (Oncorhynchus mykiss) LC50 96 h: = 484 mg/L flow-through (Oncorhynchus mykiss)	EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	EC50 48 h: = 560 mg/L Static (Daphnia magna)
Propylene glycol monomethyl ether acetate		LC50 96 h: = 161 mg/L static (Pimephales promelas)		EC50 48 h: > 500 mg/L (Daphnia magna)

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available.

Chemical Name	Log Pow
n-Butyl acetate	1.81
Ethyl acetate	0.6
Propylene glycol monomethyl ether acetate	0.43

12.4. Mobility in soil

No information available.

No information available.

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

13.1. Waste treatment methods

Waste from Residues / Unused Products Dispose of in accordance with local regulations.

Contaminated Packaging None required

Section 14. Transport information

IMDG/IMO

14.1. UN-Number	UN1210
14.2. Proper Shipping Name	Printing ink
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1210, Printing ink, 3, III, (23°C c.c.), Limited Quantity
14.5. Marine Pollutant	None
14.6. Special Provisions	None
EmS No.	F-E, S-D
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	UN1210
14.2. Proper Shipping Name	Printing ink
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1210, Printing ink, 3, III, Limited Quantity
14.5. Environmental hazard	None
14.6. Special Provisions	None
Classification Code	F1

ADR

14.1. UN-Number	UN1210
14.2. Proper Shipping Name	Printing ink
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1210, Printing ink, 3, III, (D/E), Limited Quantity
14.5. Environmental hazard	None
14.6. Special Provisions	None
Classification Code	F1

ICAO

14.1. UN-Number	UN1210
14.2. Proper shipping name	Printing ink
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1210, Printing ink, 3, III, Limited Quantity
14.5. Environmental hazard	None
14.6. Special Provisions	None

IATA

14.1. UN-Number	UN1210
14.2. Proper Shipping Name	Printing ink
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1210, Printing ink, 3, III, Limited Quantity
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	Complies
European Union	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Complies
IECSC	Complies
AICS	Complies
KECL	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
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 H-Statements referred to under sections 2 and 3

H225 - Highly flammable liquid and vapor
H226 - Flammable liquid and vapor
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Key literature references and sources for data

www.ChemADVISOR.com/

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Revision Note	(M)SDS sections updated: 8.

This safety data sheet complies with the requirements of Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No. 1907/2006

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet