



SAFETY DATA SHEET

Issuing Date 30-May-2018

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Revision Number 0

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

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

1.1. Product identifier

Product Code(s) 10441 Black, 10442 Blue, 10443 Green, 10444 Red

Product Name EZ OFF™ Wet Erase Industrial Marker

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

Pure substance/mixture Mixture

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

Recommended Use Markers

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

1.3. Details of the supplier of the safety data sheet

Supplier

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 INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

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
EUH210 - Safety data sheet available on request

Precautionary Statements

None required

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.
Non-hazardous ingredients	-	-	80-85		No data available
Ethanol	200-578-6	64-17-5	10-15	Flam. Liq. 2 (H225)	No data available
Ethylene glycol	203-473-3	107-21-1	1-5	Acute Tox. 4 (H302)	01-2119456816-28

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	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control Center immediately.
Skin Contact	Wash skin with soap and water. Get medical attention if irritation develops and 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

The ink contained in this product is flammable but not readily ignited.

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.

6.2. Environmental precautions

Avoid release to the environment. Dispose of contents/container in accordance with local regulation. See Section 12 for additional Ecological Information.

6.3. Methods and materials for containment and cleaning up

None required.

6.4. Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage

7.1. Precautions for Safe Handling

Handling

Remove all sources of ignition.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool.

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
Ethanol 64-17-5	-	STEL 2000 ppm STEL 3800 mg/m ³ MAK: 1000 ppm MAK: 1900 mg/m ³	TWA: 1000 ppm TWA: 1907 mg/m ³		TWA: 1000 ppm TWA: 1900 mg/m ³
Ethylene glycol 107-21-1	S* TWA 20 ppm TWA 52 mg/m ³ STEL 40 ppm STEL 104 mg/m ³	STEL: 20 ppm STEL: 52 mg/m ³ TWA: 10 ppm TWA: 26 mg/m ³ Skin	MLV: 40 ppm MLV: 104 mg/m ³ MLV: 20 ppm MLV: 52 mg/m ³ Skin	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Skin	TWA: 10 ppm TWA: 26 mg/m ³ TWA: 10 mg/m ³ Skin
Chemical Name	Finland	France	Germany	Gibraltar	Greece
Ethanol	TWA: 1000 ppm	VME: 1000 ppm	MAK: 500 ppm		TWA: 1000 ppm

64-17-5	TWA: 1900 mg/m ³ STEL: 1300 ppm STEL: 2500 mg/m ³	VME: 1900 mg/m ³ VLCT: 5000 ppm VLCT: 9500 mg/m ³	MAK: 960 mg/m ³ Ceiling / Peak: 1000 ppm Ceiling / Peak: 1920 mg/m ³ TWA: 500 ppm TWA: 960 mg/m ³		TWA: 1900 mg/m ³
Ethylene glycol 107-21-1	TWA: 20 ppm TWA: 50 mg/m ³ STEL: 40 ppm STEL: 100 mg/m ³ Skin	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Skin	TWA: 10 ppm TWA: 26 mg/m ³ Ceiling / Peak: 20 ppm Ceiling / Peak: 52 mg/m ³ Skin Repr*	STEL: 40 ppm STEL: 104 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³ Skin	TWA: 50 ppm TWA: 125 mg/m ³ STEL: 50 ppm STEL: 125 mg/m ³
Chemical Name	Ireland	Italy	Lithuania	Luxembourg	Malta
Ethanol 64-17-5	STEL: 1000 ppm	-	TWA: 500 ppm TWA: 1000 mg/m ³ STEL: 1000 ppm STEL: 1900 mg/m ³		
Ethylene glycol 107-21-1	TWA: 10 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Skin	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Skin Carc*	TWA: 10 ppm TWA: 25 mg/m ³ STEL: 20 ppm STEL: 50 mg/m ³ Skin	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Skin	
Chemical Name	The Netherlands	Norway	Poland	Portugal	Spain
Ethanol 64-17-5	TWA: 260 mg/m ³ STEL: 1900 mg/m ³ Skin	TWA: 500 ppm TWA: 950 mg/m ³ STEL: 500 ppm STEL: 950 mg/m ³	NDS: 1900 mg/m ³	TWA: 1000 ppm	VLA-ED: 1000 ppm VLA-ED: 1910 mg/m ³
Ethylene glycol 107-21-1	TWA: 52 mg/m ³ TWA: 10 mg/m ³ STEL: 104 mg/m ³ Skin	TWA: 20 mg/m ³ TWA: 52 ppm TWA: 52 mg/m ³ STEL: 52 mg/m ³ STEL: 20 ppm Skin	TWA: 15 mg/m ³ STEL: 50 mg/m ³	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Ceiling: 100 mg/m ³ Skin Carc*	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Skin
Chemical Name	Switzerland		Sweden	The United Kingdom	
Ethanol 64-17-5	STEL: 1000 ppm STEL: 1920 mg/m ³ MAK: 500 ppm MAK: 960 mg/m ³		LLV: 500 ppm LLV: 1000 mg/m ³ Indicative STLV: 1000 ppm Indicative STLV: 1900 mg/m ³	STEL: 3000 ppm STEL: 5760 mg/m ³ TWA: 1000 ppm TWA: 1920 mg/m ³	
Ethylene glycol 107-21-1	STEL: 20 ppm STEL: 52 mg/m ³ TWA: 10 ppm TWA: 26 mg/m ³ Skin		LLV: 10 ppm LLV: 25 mg/m ³ Binding STLV: 40 ppm Binding STLV: 104 mg/m ³ Skin	TWA: 10 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ STEL: 30 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 Showers
Eyewash stations

	Ventilation systems
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	None required under normal usage.

Environmental Exposure Controls No information available.

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	6	None known	
Melting Point/Range	No data available	None known	
Boiling Point/Boiling Range	93.333 °C / 200 °F	(Liquid Ink only)	
Flash Point	37.778 °C / 100 °F	(Liquid Ink only)	
Evaporation rate	1.5	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air	No data available	None known	
Vapor Pressure	18 mmHg @ 23°C	None known	
Vapor Density	No data available.	None known	
Relative Density	No data available	None known	
Water Solubility	Completely soluble	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	3.5 cps	None known	
Explosive Properties	No information available		
Oxidizing Properties	No information available		

9.2. Other information

VOC Content (%)	No information available
Bulk Density	8.4 lbs/gal

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

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors.

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	There is no data available for this product.
Eye Contact	There is no data available for this product.
Skin Contact	There is no data available for this product.
Ingestion	There is no data available for this product.

The following values are calculated based on chapter 3.1 of the GHS document: Not applicable

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
Ethylene glycol	= 4700 mg/kg (Rat)	= 9530 µL/kg (Rabbit) = 10600 mg/kg (Rat)	

Respiratory or Skin Sensitization	No information available
Mutagenic Effects	No information available
Carcinogenic Effects	Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.
Reproductive Toxicity	No information available
Developmental Toxicity	Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage
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 classified

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethanol		LC50 96 h: 12.0 - 16.0 mL/L static (Oncorhynchus mykiss) LC50 96 h: 13400 - 15100 mg/L flow-through (Pimephales promelas) LC50 96 h: > 100 mg/L static (Pimephales promelas)	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	LC50 48 h: 9268 - 14221 mg/L (Daphnia magna) EC50 24 h: = 10800 mg/L (Daphnia magna) EC50 48 h: = 2 mg/L Static (Daphnia magna)
Ethylene glycol	EC50 96 h: 6500 - 13000 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: 14 - 18 mL/L static (Oncorhynchus mykiss) LC50 96 h: 40000 - 60000 mg/L static (Pimephales promelas) LC50 96 h: = 16000 mg/L static (Poecilia reticulata) LC50 96 h: = 27540 mg/L static (Lepomis macrochirus) LC50 96 h: = 40761 mg/L static (Oncorhynchus)	EC50 = 10000 mg/L 16 h EC50 = 620 mg/L 30 min EC50 = 620.0 mg/L 30 min	EC50 48 h: = 46300 mg/L (Daphnia magna)

		mykiss) LC50 96 h: = 41000 mg/L (Oncorhynchus mykiss)		
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12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available.

Chemical Name	Log Pow
Ethanol	-0.32
Ethylene glycol	-1.93

12.4. Mobility in soil

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 Not Applicable

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, (37.778°C C.C.)
 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
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
ADR/RID-Labels	3
14.4. Packing Group	III
Description	UN1210, Printing ink, 3, III, (D/E)
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
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	Contact supplier for inventory compliance status
European Union	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status

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

H302 - Harmful if swallowed

Classification procedure: Calculation method

Key literature references and sources for data

www.ChemADVISOR.com/

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

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Revision Note Initial Release.

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