SAFETY DATA SHEET

Candymark Edible Ink Blue

Inkcups requests that the users of this product study this Material Safety Data Sheet (MSDS) and become aware of product hazards and safety information. To promote safe use of this product, a user should notify its employees, contractors and agents of the information in this MSDS and any product hazards and safety information.

Section 1. Identification

Product name	•	name	uct	rod	Ρ
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Product code

: CANDYMARK EDIBLE INK

: Candymark Blue

Use of the substance/mixture

Manufacture of pharmaceutical products and/or Manufacture of food products

Company	: Inkcups Now Corp.
Company	310 Andover St.
	Danvers, MA. 01923
	USA
	www.inkcups.com
	E-mail: Compliance@inkcups.com
	Phone: 978.646.8980

Emergency telephone number : US - 800-424-9300 International - +001-703-527-3887

Section 2. Hazards identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 4
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 5%
GHS label elements	

Ono laber elemento	
Signal word	: Warning
Hazard statements	: Combustible liquid.
Precautionary statements	<u>s</u>
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from flames and hot surfaces No smoking.
Response	: Notapplicable.
Storage	: Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

See Section 11 for more detailed information on health effects and symptoms.

: Mixture

Section 3. Composition/information on ingredients

Substance/mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first	aid measures
Eye contact	: Affected individual should remove contact lens, if present. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.
Inhalation	: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur.
Skin contact	: In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Get medical attention if irritation develops.
Ingestion	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Section 4. First aid measures			
Potential acute health effect	<u>sts</u>		
Eye contact	: No known significa	nt effects or critical hazards.	
Inhalation	: No known significa	nt effects or critical hazards.	
Skin contact	: No known significa	nt effects or critical hazards.	
Ingestion	: No known significa	nt effects or critical hazards.	
See toxicological informatio	n (Section 11)		
Section 5. Fire-fig	ghting measu	res	
Flammability of the product	: Non-flammable.		
Products of combustion	: No specific data.		
Fire-fighting media and instructions	: Use an extinguishing	g agent suitable for the surrounding fire.	
Special protective equipment for fire-fighters		wear appropriate protective equipment an with a full face-piece operated in positive	
Section 6. Accide	ental release n	neasures	
Personal precautions		personnel away. Do not touch or walk thr or or mist. Provide adequate ventilation. 8).	
Environmental precautions :	and sewers. Inform	led material and runoff and contact with the relevant authorities if the product ha aterways, soil or air).	
Methods for cleaning up	: Small spill : Absorb container.	with an inert material and place in an app	propriate waste disposal
	Contain and collect vermiculite or diator regulations (see Se hazard as the spille	propriate containment to avoid environme spillage with non-combustible, absorbent naceous earth and place in container for ction 13). Contaminated absorbent mater d product. Use a non-sparking or explosion , appropriate container for disposal.	t material e.g. sand, earth, disposal according to local ial may pose the same

Section nanuling and storage

Handling Storage

: Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Do not reuse container.

: Keep container tightly closed. Store in a dry, cool and well-ventilated area. Store away from incompatible materials (see Section 10). Store in accordance with local regulations.

Section 8. Exposure controls/personal protection

Control parameters Occupational exposure limits None.

Environmental exposure

controls

controls

Appropriate engineering : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

> : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists,

gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

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Section 8. Exposure controls/personal protection

Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Values provided should not be construed as specifications. See product specification for additional information.

Physical state	: Liquid.
Appearance	: Blue Liquid
Flash point	: Closed cup: 90°C (194°F)
Boiling point	: Lowest known value: 100°C (212°F) (water). Weighted average: 218.22°C(424.8°F)
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Way start to solidify at the following temperature: 18.17°C (64.7°F) This is based on data for the following ingredient: glycerol. Weighted average: 11.31°C (52.4°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not applicable.
Upper/lower flammability or explosive limits	: Freatest known range: Lower: 2.7% Upper: 19% (glycerol)
Vapor pressure	: Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 1. 21 kPa (9.08 mm Hg) (at 20°C)
Vapor density	: ⊮ ighest known value: 3.2 (Air = 1) (glycerol).
Relative density	: Ønly known value: 1.26 (Water = 1) (glycerol).
Solubility(ies)	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Løwest known value: 370°C (698°F) (glycerol).
Decomposition temperature	: Not available.
Viscosity	: 🕼 namic: Highest known value: 1412 cP (glycerol)
Explosive properties	: Not available.
Oxidizing properties	: Not available.

Section 10. Stability and reactivity

Reactivity	: Not available.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

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Section 10. Stabi	lity and reactivi	ity		
Incompatible materials	: Reactive or incompat oxidizing materials	tible with the following materia	ls:	
Hazardous decomposition products	: Under normal conditio not be produced.	ns of storage and use, hazard	lous decompositi	on products shoul
Section 11. Toxic	ological inform	ation		
Ingredient name CAS	<u># Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
Chronic effects				
No known significant effects	or critical hazards.			
-	or critical hazards. Avoid p	rolonged contact with eyes, sk	in and clothing.	
Specific effects on humans	ity / Reproductive toxicity	rolonged contact with eyes, sk	-	rds.
Specific effects on humans Mutagenicity / Teratogenic <u>Numerical measures of tox</u> <u>Acute toxicity estimates</u>	ity / Reproductive toxicity		s or critical hazar	ds.
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Section 12. Ecological information

Toxicity

Not available.

Bioaccumulative potential

Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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Section 14. Transport information				
	DOT Classification	ADN	IMDG	ΙΑΤΑ
UN number	1210	1210	1210	1210
UN proper shipping name	Not available.	Not available.	Not available.	Not available.
Transport hazard class(es)	Combustible liquid.	9	Not available.	Not available.
Packing group	ш	-	-	-
Environmental hazards	No.	N o.	No.	No.
Additional information	Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials.			

Section 15. Regulatory information

United States				
U.S. Federal regulations	: TSCA 4(a) final test rules: acetaldehyde			
	TSCA 8(a) PAIR: acetaldehyde			
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined			
	United States inventory (TSCA 8b): All components are listed or exempted.			
	SARA 302/304: No products were found.			
	SARA 311/312 Hazards identification: Fire hazard, Delayed (chronic) health hazard			
	Clean Water Act (CWA) 311: acetaldehyde			
	Clean Air Act (CAA) 112 accidental release prevention: No products were found.			
State regulations	: Connecticut Carcinogen Reporting: None of the components are listed.			
otate regulations	Connecticut Hazardous Material Survey: None of the components are listed.			
	Florida substances: None of the components are listed.			
	Illinois Chemical Safety Act: None of the components are listed.			
	Illinois Toxic Substances Disclosure to Employee Act: None of the components are			
	listed.			
	Louisiana Reporting: None of the components are listed.			
	Louisiana Spill: None of the components are listed.			
	Massachusetts Spill: None of the components are listed.			
	Massachusetts Substances: The following components are listed: GLYCERINE MIST			
	ETHYL ALCOHOL; DENATURED ALCOHOL; C.I. ACID BLUE 9, DISODIUM SALT			
	Michigan Critical Material: None of the components are listed.			
	Minnesota Hazardous Substances: None of the components are listed.			
	New Jersey Hazardous Substances: The following components are listed: GLYCERIN			
	1,2,3-PROPANETRIOL; ETHYL ALCOHOL; ALCOHOL			
	New Jersey Spill: None of the components are listed.			
	New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.			
	New York Acutely Hazardous Substances: None of the components are listed.			
	New York Toxic Chemical Release Reporting: None of the components are listed. Pennsylvania RTK Hazardous Substances: The following components are listed: 1,2			
	3-PROPANETRIOL; DENATURED ALCOHOL; ETHANOL			
	Rhode Island Hazardous Substances: None of the components are listed.			

Component name/Impurities	Cancer	Reproductive	<u>No significant risk</u>	Maximum acceptable
			<u>level</u>	<u>dosage level</u>
acetaldehyde	Yes.	No.	90 µg/day (inhalation) No.	

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Section 15. Regulatory information

Hazardous ingredients (Canada)		%	CAS number	
	YCERIN 50 - 70		56-81-5	
WHMIS (Canada)	: Cass B-3: Combustible liquid wit (200°F).	h a flash point between 37.8	°C (100°F) and 93.3°C	
Canadian lists	: EPA Toxic substances : None of the components are listed.			
	Canadian ARET: None of the co	omponents are listed.		
	Canadian NPRI: The following of	components are listed: Ethar	lor	
	Alberta Designated Substance	es: None of the components	are listed.	
	Ontario Designated Substance	es: None of the components	are listed.	
	Quebec Designated Substanc	es: None of the components	are listed.	
This product has been classified in accor	dance with the hazard criteria of the Controlled Products Regulations	and the MSDS contains all the information requ	uired by the Controlled Products Regulation	

See Section 11 for more detailed information on health effects and symptoms.

Section 16. Other information

National Fire Protection Association (U.S.A.)



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History

	Date of issue	: 24 May 2018
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Indicates information that has changed from previously issued version.

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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