

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	Ideapaint Dry Erase Markers	
Version #	02	
Issue date	05-January-2015	
Revision date	16-August-2019	
Supersedes date	-	
CAS #	Mixture	
Product code	October 2014	
Product use	Dry Erase Markers	
Manufacturer information	IdeaPaint One Beacon Street, Suite 1500 Boston, MA 02108	
	Telephone number	617.714.1050
	Emergency telephone	
	US, Canada, Mexico	1.866.519.4752
	US, Canada, Mexico	1-760-476-3962
	Asia Pacific	1-760-476-3960
	Middel East/Africa	1-760-476-3959
	Australia	+ 61 1 800 686 951
	China	+ 86 4001 2001 74
	Access Code	1-760-476-3961

2. Hazards Identification

Emergency overview	WARNING Irritating to eyes.
Potential health effects	
Routes of exposure	Ingestion. Skin contact. Eye contact.
Eyes	Contact with eyes may cause irritation.
Skin	Health injuries are not known or expected under normal use.
Inhalation	Health injuries are not known or expected under normal use.
Ingestion	Health injuries are not known or expected under normal use.
Chronic effects	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Signs and symptoms	Causes eye irritation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Polyethylene	9002-88-4	60
Polypropylene	9003-07-0	20
Isopropyl alcohol	67-63-0	6
Ethyl Alcohol	64-17-5	4
Titanium Dioxide	13463-67-7	4
Ethyl Ester	91031-48-0	2
Pigment	N/A	2

4. First Aid Measures

First aid procedures

Inhalation	Move person to fresh air. Get medical attention if discomfort develops or persists.
Skin contact	Rinse immediately with plenty of water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth thoroughly with water. Get medical attention if irritation develops and persists. Do not induce vomiting unless told to do so by a poison control center or doctor.

Notes to physician

In case of shortness of breath, give oxygen. Keep victim warm.

General advice

Get medical attention if any discomfort develops.

5. Fire Fighting Measures

Flammable properties

Not flammable by OSHA criteria.

Extinguishing media

Suitable extinguishing media Use any media suitable for the surrounding fires.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Specific hazards arising from the chemical By heating and fire, irritating vapors/gases may be formed.

Protective equipment for firefighters Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

Explosion data

Sensitivity to static discharge Not sensitive.

Sensitivity to mechanical impact Not sensitive.

Hazardous combustion products

Carbon oxides. Titanium dioxide.

General fire hazards

The product is not flammable.

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the MSDS.

Methods for containment

Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up

The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Avoid inhalation of vapors and contact with skin and eyes. Observe good industrial hygiene practices. Use Personal Protective Equipment recommended in section 8 of the MSDS.

Storage

Keep in a well-ventilated place. Keep container tightly closed. Keep this material away from food, drink and animal feed.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH Biological Exposure Indices

Components	Type	Value
Isopropyl alcohol (CAS 67-63-0)	BEI	40 mg/l

US. ACGIH Threshold Limit Values

Components	Type	Value
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m ³

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
Ethyl Alcohol (CAS 64-17-5)	TWA	1880 mg/m ³
		1000 ppm
Isopropyl alcohol (CAS 67-63-0)	STEL	984 mg/m ³
		400 ppm
	TWA	492 mg/m ³
		200 ppm
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m ³

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm	
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
Titanium Dioxide (CAS 13463-67-7)	TWA	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Total dust.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m ³

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m ³

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form
Ethyl Alcohol (CAS 64-17-5)	TWA	1880 mg/m ³	

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	STEL	1000 ppm	
		1230 mg/m3	
	TWA	500 ppm	
		983 mg/m3	
Titanium Dioxide (CAS 13463-67-7)	TWA	400 ppm	Total dust.
		10 mg/m3	

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Ethyl Alcohol (CAS 64-17-5)	PEL	1900 mg/m3	
Isopropyl alcohol (CAS 67-63-0)	PEL	1000 ppm	
		980 mg/m3	
Titanium Dioxide (CAS 13463-67-7)	PEL	400 ppm	Total dust.
		15 mg/m3	

Exposure guidelines

Follow standard monitoring procedures.

Engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection

Risk of splashes: Wear chemical goggles.

Skin protection

Risk of splashes: Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

9. Physical & Chemical Properties

Appearance

Physical state

Liquid.

Form

Liquid.

Color

White & Color.

Odor

Slight alcohol.

Odor threshold

Not available.

pH

8.5 - 9.5 (100 g/l)

pH temperature

68 °F (20 °C)

Vapor pressure

Not available.

Vapor density

Not available.

Boiling point

356 °F (180 °C) (102 bar)

Melting point/Freezing point

356 °F (180 °C) (102 bar)

Solubility (water)

Not available.

Specific gravity

Not available.

Flash point

356.0 °F (180.0 °C) (102 bar)

Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air, lower, % by volume

Not available.

Auto-ignition temperature

320 °F (160 °C) (102 bar)

Evaporation rate

Not available.

Viscosity

2000 cP

Partition coefficient (n-octanol/water)

< 1 (Estimation)

Other data

Decomposition temperature 392 °F (200 °C) (102 bar)

10. Chemical Stability & Reactivity Information

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Conditions to avoid Avoid temperatures exceeding the decomposition temperature. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents.

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Ethyl Alcohol (CAS 64-17-5)		
Acute		
<i>Inhalation</i>		
LC50	Rat	20000 ppm, 10 Hours
<i>Oral</i>		
LD50	Rat	6.2 g/kg
Isopropyl alcohol (CAS 67-63-0)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	12800 mg/kg
<i>Oral</i>		
LD50	Rat	4.7 g/kg

* Estimates for product may be based on additional component data not shown.

Acute effects Not expected to be acutely toxic.

Sensitization Not classified.

Chronic effects Not expected to be hazardous by WHMIS criteria.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

ACGIH Carcinogens

Isopropyl alcohol (CAS 67-63-0)	A4 Not classifiable as a human carcinogen.
Titanium Dioxide (CAS 13463-67-7)	A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium Dioxide (CAS 13463-67-7)	2B Possibly carcinogenic to humans.
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Skin corrosion/irritation Not available.

Serious eye damage/irritation Causes eye irritation.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive effects Not classified.

Teratogenicity Not available.

Symptoms and target organs Causes eye irritation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Synergistic materials Not available.

12. Ecological Information

Ecotoxicological data

Components		Species	Test Results
Ethyl Alcohol (CAS 64-17-5)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia obtusa</i>)	10100 - 11200 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	13480 mg/l, 96 hours
Isopropyl alcohol (CAS 67-63-0)			
Aquatic			
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	> 1400 mg/l, 96 hours
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.		
Aquatic toxicity	Not classified.		
Persistence and degradability	Not available.		
Partition coefficient			
Ideapaint Dry Erase Markers		< 1, Estimation	
Ethyl Alcohol (CAS 64-17-5)		-0.31	
Isopropyl alcohol (CAS 67-63-0)		0.05	

13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

Canadian regulations	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
WHMIS status	Controlled
WHMIS classification	D2B - Other Toxic Effects-TOXIC
WHMIS labeling	



International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

NFPA ratings

Health: 1
 Flammability: 1
 Instability: 0

Disclaimer

IdeaPaint cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Prepared by

Not available.