

Dry Erase Paint and Anti-Graffiti Paint 1-Component

JML Products & Design Safety Data Sheet

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1. Product and Company Identification

1.1 Product identifiers

Product Name	Dry-Erase Plus™ / Expressions™
Producer	JML Products & Design
Product Number	Not available
CAS-No.	Not available

1.2 Identified uses of the product and uses advised against

Identified Uses	Dry-erase paint, anti-graffiti paint, (indoor and outdoor)
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1.3 Details of the chemical supplier

Company	JML Products & Design
Dock Address	1408 Richland Pkwy (shipping dock) Pleasant Hill, MO 64080 USA
Website	www.JMLProductsAndDesign.com
Telephone	+1 (888) 877-2261

1.4 Emergency phone number

Emergency phone number	+1 (800) 424-9300 (CHEMTREC)
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2. Hazards Identification

2.1 Classification of the substance or mixture

GHS class	Skin sensitization (Category 1), H317 Eye irritation (Category 2A), H319 Respiratory sensitization (Category 1), H334
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2.2 GHS Label elements, including precautionary statements

GHS pictograms



Signal word	Danger
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Hazard statements	H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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Precautionary statements	<p>P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</p> <p>P264 - Wash skin thoroughly after handling.</p> <p>P272 - Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P285 - In case of inadequate ventilation wear respiratory protection.</p> <p>P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.</p> <p>P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337 + P313 - If eye irritation persists: Get medical advice/ attention.</p> <p>P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor.</p> <p>P363 - Wash contaminated clothing before reuse.</p> <p>P501 - Dispose of contents/ container to an approved waste disposal plant.</p>
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2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - None

3. Composition/Information on Ingredients

3.1 Product mixture

Synonyms	Dry-erase paint, anti-graffiti paint, hexamethylene diisocyanate homopolymers mixture, HDI polymers mixture, bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexan-1,2-diylbiscarbamate mixture, urethane bis(oxazolidine) mixture
Formula	Mixture
Molecular wt	Mixture
CAS-No.	Mixture
EC-No.	Mixture

Chemical Name	CAS-No.	EC-No.	Ingredient Percent
Hexamethylene diisocyanate	28182-81-2	500-060-2	25 - 35 %
Hexane 1.6 Diisocyanate	822-06-0Y	212-485-8	20 - 30 %
Urethane bis(oxazolidine)	59719-67-4	261-879-6	20 - 40 %
Titanium Dioxide (for white)	13463-67-7	236-675-5	10 - 20 %

Remarks	There are no additional hazardous ingredients greater than or equal to 1.0 wt% concentration or carcinogenic ingredients greater than or equal to 0.1 wt% concentration.
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4. First Aid Measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Skin contact	Wash off with soap and water. Consult a physician if irritation occurs.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water and consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects	The most important known symptoms and effects are described in the labelling (see section 2.2) and in section 11.
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4.3 Indication of any immediate medical attention and special treatment needed

Other first aid	No data available
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5. Fire Fighting Measures

5.1 Suitable (and unsuitable) extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Special hazards Oxides of carbon gases may occur if product is exposed to excessive temperatures.

5.3 Advice for firefighters

Protective equipment Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions Eliminate ignition sources. Only trained personnel should be involved in clean up procedures in case of spill. Avoid breathing vapors, mist or gas. For personal protection see section 8. Keep storage and application away from pets, children, pregnant women, and uninformed personnel.

6.2 Environmental precautions

Environmental precautions Dike spill to prevent runoff into sewers and drains. Recover as much of the material as possible. Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Methods for cleanup Soak up with inert absorbent material and dispose. Keep in suitable, closed containers for disposal.

6.4 References to other sections

Other references For disposal see section 13.

7. Handling and Storage

7.1 General hygiene considerations

General hygiene Avoid contact with skin and eyes. Avoid inhalation of vapor or dust. Use local exhaust or general dilution ventilation to control exposure within applicable limits. For precautions see section 2.2.

7.2 Precautions for safe handling

Safe handling precautions Keep container tightly closed in a dry and well-ventilated place.

7.3 Conditions for safe storage, including any incompatibilities

Other storage conditions Apart from the uses mentioned in sections 1.2 and 6.1 no other specific uses are stipulated.

8. Exposure Controls/Personal Protection

8.1 Control and exposure limits recommended by the chemical manufacturer

OSHA Standards	Not established
Threshold Limit Values	Not established
NIOSH Recommendations	Not established

8.2 Appropriate engineering controls

Engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Use adequate ventilation where dust forms to keep concentration under exposure control limits.

8.3 Individual protection measures, such as personal protective equipment

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye/face protection	Safety glasses with side-shields conforming to EN166 are recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Hand protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body protection	Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) Appearance	Liquid
b) Odor	No data available
c) Odor threshold	No data available
d) pH	No data available
e) Melting/freezing point	No data available
f) Boiling point	No data available
g) Flash point	> 93.3°C (> 200°F)
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	Upper (UEL): No data available Lower (LEL): No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient octanol/water	No data available
p) Auto-ignition temp	No data available
q) Decomposition temp	No data available
r) Viscosity	No data available

10. Stability and Reactivity

10.1 Reactivity

Reactivity	No data available
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10.2 Chemical stability

Chemical stability	Stable under ordinary conditions of use and storage.
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10.3 Possibility of hazardous reactions

Hazardous reactions	No data available
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10.4 Conditions to avoid

Conditions to avoid	Contact with incompatible chemicals and exposure to extremely high temperatures.
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10.5 Incompatible materials

Incompatible materials	Strong oxidizers, strong acids, acid chlorides, acid anhydrides, chloroformates, or strong reducing agents.
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10.6 Hazardous decomposition products

Hazardous products	No data available. In the event of fire, see section 5.
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11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity	LD50 Rat – > 2,000 mg/kg
Acute dermal toxicity	LD50 Rabbit – > 2,000 mg/kg
Acute inhalation toxicity	No data available
Skin corrosion/irritation	
Skin corrosion irritation	No data available
Serious eye damage/eye irritation	
Eye damage/eye irritation	No data available
Respiratory or skin sensitization	
Respiratory sensitizer	No data available
Skin sensitizer	No data available
Germ cell mutagenicity	
Mutagenicity	No data available
Suspected cancer agent	
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
Reproductive toxicity	
Reproductive toxicity	This product is not reported to produce mutagenic, embryotoxic, teratogenic, or reproductive effects in humans.
Aspiration hazard	
Aspiration hazard	No data available

12. Ecological Information

- 12.1 Ecotoxicity (aquatic and terrestrial)**
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|-------------|-------------------|
| Ecotoxicity | No data available |
|-------------|-------------------|
- 12.2 Persistence and degradability**
- | | |
|---------------|-------------------|
| Degradability | No data available |
|---------------|-------------------|
- 12.3 Bioaccumulation potential**
- | | |
|-----------------|-------------------|
| Bioaccumulation | No data available |
|-----------------|-------------------|
- 12.4 Mobility in soil**
- | | |
|------------------|-------------------|
| Mobility in soil | No data available |
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- 12.5 Results of PBT and vPvB assessment**
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|---------------------|---|
| PBT/vPvB assessment | Not available as chemical safety assessment not required/not conducted. |
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13. Disposal Considerations

- 13.1 Waste treatment methods**
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| Waste treatment disposal | Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. |
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14. Transport Information

DOT (US)
Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

15. Regulatory Information

15.1 Safety, health, and environmental regulations specific to the product or mixture

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	Acute health hazard, chronic health hazard.
CA Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

HMIS Rating	Health hazard: 2 Flammability: 1 Physical Hazard 0
NFPA Rating	Health hazard: 2 Fire Hazard: 1 Reactivity Hazard: 0
Revision Date	23 August 2016

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Abbreviations and acronyms	IMDG - International Maritime Code for Dangerous Goods TDG - Transportation of Dangerous Goods IATA - International Air Transport Association GHS - Globally Harmonized System of Classification and Labelling of Chemicals PBT - Persistent, bioaccumulative and toxic assessment vPvB - Very persistent and very bioaccumulative assessment ACGIH - American Conference of Governmental Industrial Hygienists NIOSH - National Institute for Occupational Safety and Health TLV - Threshold Limit Values CAS - Chemical Abstracts Service (division of the American Chemical Society) NFPA - National Fire Protection Association HMIS - Hazardous Materials Identification System CFR - Code of Federal Regulations SARA - Superfund Amendments and Reauthorization Act DOT - US Department of Transportation EC50 - Half maximal effective concentration LD50 - Median lethal dose LC50 - Median lethal concentration SDS - Safety Data Sheet
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END OF SDS

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Special Protection Information

Ventilation

Adequate ventilation is required to minimize exposure or to maintain exposure levels below OSHA/ACGIH requirements. Local mechanical ventilation may be required.

Eye Protection

Chemical goggles or face shield. Always wear eye protection when working with chemicals. Do not wear contact lenses.

Skin Protection

Keep away from skin. Wear clean body covering clothing, impervious gloves, and rubber boots.

Respiratory Protection

If workplace exposure limit(s) of product or any component is exceeded, or if exposure may occur, use a NIOSH approved respirator for your conditions of exposure. Refer to the most recent NIOSH publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134.

Special Precautions – Storage, Handling & Use

Observe proper hygiene and safe working practices. Wear protective equipment and appropriate safety equipment when handling. Use only with adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not get in eyes, on skin, or clothing. Avoid prolonged or repeated contact with skin. Do not swallow. Do not inhale or sniff fumes. Keep heat, lights, fire, ignition sources and sparks away. For industrial use only. Keep container closed when not in use. Store in cool dry place and away from incompatible materials. Keep out of reach of children, pregnant women, plants, animals, and individuals who may be incompetent with use of this product, during storage, application, and curing of product. Product is only for installation and use by competent and informed individuals; not for consumption. After applied product is dry-to-touch, ventilate room air to outside and replace with fresh air. Properly dispose of all contaminated items, installation materials and containers per local and pertaining codes.

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***SAFETY DATA SHEET AND FOLLOW ALL PRODUCT INFORMATION INCLUDING THE
PRECAUTIONS TO PREVENT BODILY AND OTHER HARM.***

Special Section Prepared: 06/03/14

Made in the U.S.A. Patent No. 9,434,843, 9,868,865 and Patent Pending