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Revision Date 10/4/19

Version 1

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY UNDERTAKING

Product Name:	Muralshield
Company:	Urban Restoration Group US Inc. 5439 San Fernando Rd. W Los Angeles CA 90039
24-Hour Emergency Telephone Number: (PERS) Professional Emergency Resource Services	USA 1-800-728-2482 (Int'l 1-801-629-0667) Contract number: 8400
Phone Number:	1- 818- 247- 2555
Fax:	1- 818- 247- 2515
Intended Use:	Intended Use: Designed for the conservation, restoration, and preservation of fine art acrylic murals. This product consolidates paint layers and provides UV protection and weather proofing. Enhances and restores color to sun damaged murals. Protects murals from vandalism when used in conjunction with World's Best Graffiti Coating.

2 HAZARDS IDENTIFICATION

Flammability:	Flammable liquid / Flammable Category 2
Signal Word:	DANGER
Hazard Statement:	Highly flammable liquid and vapor. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.



Precautionary Statements:	<p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Use only outdoors or in a well ventilated area. Take precautionary measures against static discharge. Use only non-sparking tools. Do not eat, drink or smoke when using this product. Avoid breathing vapors or mist. Keep container tightly closed. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>If swallowed: Call a poison center if you feel unwell.</p> <p>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If in eyes: Rinse immediately with plenty water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Store in a cool dry and well ventilated place. Keep container tightly closed.</p>
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3 COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	Percentage Range
Acetone	67-64-1	10-30%
Tert-Butyl acetate	540-88-5	30-60%
Propylene carbonate	108-32-7	10-20%
Balance – Trade Secret	The complete specific chemical identity has been withheld as a trade secret. Other ingredients are not known to significantly contribute to the hazard classification.	

4 FIRST-AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

Description of first aid measures

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show them the label.

In the event of splashes or contact with skin:

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

In the event of swallowing:

Do NOT induce vomiting. Never give liquid to an unconscious person. Get medical attention immediately.

Most important symptoms/effects, acute and delayed:

No data available.

Indication of any immediate medical attention and special treatment needed:

No data available.

5 FIRE-FIGHTING MEASURES

General fire hazards:

Move containers from fire area if you can do so without risk. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Extinguishing:

Extinguishers: Use Carbon Dioxide, dry powder, foam. Avoid water in straight hose stream; will scatter and spread fire.

Exposure Hazards:

Flammable liquid. Forms explosive mixtures with air over a wide range. Vapors are heavier than air and may travel to a source of ignition and flashback. Combustion produces toxic gases and irritants including carbon monoxide and oxides of sulfur.

Special fire fighting procedures:

Vapors are heavier than air and may spread near ground to sources of ignition.

Protective Equipment for firefighting:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear gloves, chemical goggles.
Environmental Precautions:	Prevent entry into drains and waterways.
Methods for Cleaning Up:	Eliminate sources of ignition. Absorb spillage with non combustible material. Dike for later disposal. Isolate leaking containers and stop leak if safe to do so. Ventilate the area and dispose of in accordance with Federal, State and Local regulations.

7 HANDLING AND STORAGE

Handling:	Flammable/combustible - Keep away from oxidizers, heat and flames. Use only in well-ventilated areas. Avoid breathing dust/fume/gas/mist/vapors/spray. Store away from incompatible materials.
Storage:	Flammable liquid storage. Flammable/combustible - Keep away from oxidizers, heat and flames. Keep container tightly closed in a cool, well ventilated place.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational exposure limits

Chemical identity	Type	Exposure Limit Values	Source
tert-Butyl acetate	STEL	150ppm	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	200ppm	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	PEL	200 ppm 435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Personal Protective Equipment

Eye/Face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin and body protection

Long sleeved clothing.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9 PHYSICAL AND CHEMICAL PROPERTIES

Typical values – does not constitute a specification

Appearance / Physical State	Clear to yellowish liquid
Odor	Sweetish, pungent
Boiling point/range	No data available
Flash Point (Abel closed cup)	-2° C / 28.4°F
PH	No data available
Flammability auto ignition temp.	LEL: 2.5 UEL 12.8
Melting point / Freezing point:	No data available
Explosive properties	Vapors can form explosive mixture with air
Oxidizing properties	None
Vapor pressure	No data available
Relative Density	No data available
Solubility in water	No data available
Solubility in fat / solvent	No data available
Partition coefficient (log Pow)	No data available
Auto – Ignition temperature	465°C (869°F)
Decomposition temperature	No data available
Viscosity	No data available
Evaporation rate	No data available

10 STABILITY AND REACTIVITY

Reactivity:	No data available
Stability:	No data available
Conditions to avoid:	Keep away from flames and sources of ignition
Materials to avoid:	Acids, Strong oxidizing agents, Strong bases
Hazardous decomposition products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	
-oral	Contains components which are harmful if swallowed.
-inhalation	Contains components which are harmful by inhalation.
-dermal	Inhalation may lead to light-headedness, nausea and headache. Can be absorbed through the skin.
Sensitization:	
-skin	No data available.
-respiratory	No data available.

12 ECOLOGICAL INFORMATION

Toxicity	
Mixtures	No aquatic toxicity data available for the mixture.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	No data available.
Other adverse effects	No data available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods: Do not pour into drains, sewers or waterways.

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.
Recycle or dispose of waste in compliance with Federal, State, and Local regulations.

Appropriate packaging: Dispose of in original packaging or over pack in larger container such as an appropriate 55 gal drum.
Give to a certified licensed disposal contractor.

14 TRANSPORT INFORMATION

U.S. Department of Transportation (DOT) / Canada Transport of Dangerous Goods (TDG)



UN1993, Flammable liquid, n.o.s.,(t butyl acetate, acetone),3,PGII

For Air Transport reference the ICAO / IATA Regulations.

For Ocean Transport reference the IMO / IMDG Regulations.

15 REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65)



WARNING: This product can expose you to chemicals including traces of toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Any waste generated must comply with Federal EPA and California DTSC regulations pertaining to proper hazardous waste disposal. Additionally, comply with all Federal, State and Local regulations.

16 OTHER INFORMATION

This product safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations.

The information identified in this Safety Data Sheet is true and correct based on best knowledge of information available.

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