

WATER VARNISHHIGLOS OVERPRINT

Version 1.4

Revision Date 08/31/2018

Print Date 11/05/2018

SECTION 1. IDENTIFICATION

Product name : WATER VARNISH HIGLOS OVERPRINT

Product Use Description : WVG000140

Manufacturer or supplier's details

Company : ACTEGA North America, Inc.
950 S. Chester Avenue
Delran, NJ 08075

Telephone : (856) 829-6300
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Visit our web site : www.actega.com
Emergency telephone number : Chemtrec Phone: 1-800-424-9300 / +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H227 Combustible liquid.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

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P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 30 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous components**

Component	CAS-No.	Concentration (%)
Isopropanol	67-63-0	≥ 5 - < 10
Ammonia hydroxide	1336-21-6	≥ 1 - < 3
alpha-methylstyrene	98-83-9	≥ 0.1 - < 1

SECTION 4. FIRST AID MEASURES

- General advice : Consult a physician for severe cases.
Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
Consult a physician after significant exposure.
- If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and water.
If symptoms persist, call a physician.
- If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : If easy to do, remove contact lens, if worn.
Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

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Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed

: If swallowed, do not induce vomiting - seek medical advice.

Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : No information available.
Do not allow run-off from fire fighting to enter drains or water courses.

Do not allow run-off from fire fighting to enter drains or water courses.

Further information : Standard procedure for chemical fires.
Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

Special protective equipment for firefighters : No information available.
Use personal protective equipment.

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Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|---|
| Personal precautions,
protective equipment and
emergency procedures | : Ensure adequate ventilation.
Wear protective equipment: goggles, chemically resistant
clothing and gloves, and appropriate respirator if in a confined
area. |
| | : Use personal protective equipment. |
| Environmental precautions | : Prevent spilled material from entering the ground, water
and/or air by using appropriate containment methods. |
| | Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform
respective authorities. |
| Methods and materials for
containment and cleaning up | : Absorb with inert absorbent material and dispose of in
accordance with applicable regulations. |
| | Contain spillage, and then collect with non-combustible
absorbent material, (e.g. sand, earth, diatomaceous earth,
vermiculite) and place in container for disposal according to
local / national regulations (see section 13).
Keep in suitable, closed containers for disposal. |

SECTION 7. HANDLING AND STORAGE

- | | |
|-----------------------------|--|
| Advice on safe handling | : Handle in accordance with good industrial hygiene and safety
practices.
Avoid prolonged or repeated inhalation of spray mists and
heated vapors.
Use only with adequate ventilation/personal protection. |
| | Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the
application area.
Provide sufficient air exchange and/or exhaust in work rooms.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national
regulations. |
| Conditions for safe storage | : Store at room temperature in the original container. |

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No smoking.
 Keep container tightly closed in a dry and well-ventilated place.
 Observe label precautions.
 Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Isopropanol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	OSHA Z-1
Ammonia hydroxide	1336-21-6	TWA	25 ppm (Ammonia)	ACGIH
		STEL	35 ppm (Ammonia)	ACGIH
		TWA	25 ppm 18 mg/m3 (Ammonia)	NIOSH REL
		ST	35 ppm 27 mg/m3 (Ammonia)	NIOSH REL
alpha-methylstyrene	98-83-9	TWA	10 ppm	ACGIH
		C	100 ppm 480 mg/m3	OSHA Z-1
		TWA	50 ppm 240 mg/m3	NIOSH REL
		ST	100 ppm 485 mg/m3	NIOSH REL
		PEL	50 ppm 240 mg/m3	CAL PEL
		STEL	100 ppm 485 mg/m3	CAL PEL

Personal protective equipment

Hand protection

Material : Neoprene gloves

Remarks

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection

: Safety glasses

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	Use safety eyewear designed to protect against splash of liquids. Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	: Long sleeved clothing Chemical resistant apron Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Protective measures	: Ensure that eye flushing systems and safety showers are located close to the working place.
Hygiene measures	: Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, or smoking. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: colourless
Odour	: ammoniacal
Odour Threshold	: No data available
pH	: 9.2 - 9.6
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Vapour pressure	: No data available
Flash point	: 150 - 190 °F (66 - 88 °C)
Upper explosion limit	: No data available
Lower explosion limit	: No data available

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Evaporation rate : No data available

Flammability (solid, gas) : No data available

Relative vapour density : No data available

Relative Density/Specific Gravity : No data available

Solubility(ies)
Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Ignition temperature : No data available

Thermal decomposition : No data available

Viscosity
Viscosity, dynamic : No data available**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

Conditions to avoid : No data available

Heat, flames and sparks.

Hazardous decomposition products : No data available

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Skin contact

Eyes

Inhalation

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Acute toxicity**Product:**

Acute oral toxicity : Remarks: No data available

Components:**67-63-0 Isopropanol:**

Acute oral toxicity : LD50 (Rat): 5,840 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 12,800 mg/kg

1336-21-6 Ammonia hydroxide:

Acute oral toxicity : LD50 (Rat): 350 mg/kg

Acute inhalation toxicity : LC50 (Rat): 3670 ppm

98-83-9 alpha-methylstyrene:

Acute oral toxicity : LD50 (Rat): 4,900 mg/kg

Acute inhalation toxicity : LC50 (Rat): 3000 ppm

Acute dermal toxicity : LD50 (Rabbit): > 16,000 mg/kg

Skin corrosion/irritation**Product:**

Remarks: No data available

Remarks: Extremely corrosive and destructive to tissue.

Components:**67-63-0 Isopropanol:**

Species: Rabbit

Result: Moderate skin irritation

1336-21-6 Ammonia hydroxide:

Species: Rabbit

Result: Corrosive to skin

98-83-9 alpha-methylstyrene:

Species: Rabbit

Result: Moderate skin irritation

Serious eye damage/eye irritation**Product:**

Remarks: No data available

Remarks: May cause irreversible eye damage.

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Components:**67-63-0 Isopropanol:**

Species: Rabbit

Result: Eye irritation

1336-21-6 Ammonia hydroxide:

Species: Rabbit

Result: Corrosive to eyes

98-83-9 alpha-methylstyrene:

Species: Rabbit

Result: Mild eye irritation

Respiratory or skin sensitisation**Product:**

Remarks: No data available

Components:**67-63-0 Isopropanol:**

Test Type: Buehler Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

GLP: yes

Carcinogenicity**IARC**

Group 2B: Possibly carcinogenic to humans

alpha-methylstyrene

98-83-9

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Repeated dose toxicity**Product:**

Remarks: No data available

Further information**Product:**

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Remarks: No data available

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other :
aquatic invertebrates Remarks: No data available**Components:****1336-21-6 Ammonia hydroxide:**M-Factor (Acute aquatic : 1
toxicity)**98-83-9 alpha-methylstyrene:**Toxicity to fish : LC50 (Brachydanio rerio (Zebrafisch)): 2.97 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yesToxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.645 mg/l
aquatic invertebrates Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yesToxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): 2.26 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yesEC50 (Desmodesmus subspicatus (green algae)): 11.441
mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes**Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

Components:

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98-83-9 alpha-methylstyrene:

Biodegradability

: Result: Not readily biodegradable.
Method: OECD Test Guideline 301D
GLP: yes

Bioaccumulative potential**Product:**

Bioaccumulation

: Remarks: No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Regulation

40 CFR Protection of Environment; Part 82 Protection of
Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks

This product neither contains, nor was manufactured with a
Class I or Class II ODS as defined by the U.S. Clean Air Act
Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological
information

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues

: Dispose of in accordance with applicable Federal, State, and
local regulations. Under the Resource Conservation and
Recovery Act (RCRA) regulations, it is the responsibility of the
product user to determine, at the time of disposal, whether a
material should be classified as a hazardous waste. Consult
your attorney or appropriate regulatory affairs officer for
information on proper disposal.
Dispose of wastes in an approved waste disposal facility.

Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with
chemical or used container.
Send to a licensed waste management company.

Contaminated packaging

: Do not re-use empty containers.
Empty containers should be taken to an approved waste
handling site for recycling or disposal.

Empty remaining contents.

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Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations**49 CFR**

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****US. EPA CERCLA Hazardous Substances (40 CFR 302)**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Ammonia hydroxide	1336-21-6	1000	34722

SARA 304 - Emergency Release Notification

This material does not contain any components with a section 304 EHS RQ.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

This material does not contain any components with a SARA 302 RQ.

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Isopropanol 67-63-0 5.1 %

Clean Air Act

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This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

Isopropanol	67-63-0	5.1 %
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Massachusetts Right To Know

Isopropanol	67-63-0
Ammonia hydroxide	1336-21-6

Pennsylvania Right To Know


Water	7732-18-5
Acrylic Copolymer	Not Assigned
MCP Styrene Acrylic Polymer	Not Assigned
Resin Flakes	Not Assigned
Isopropanol	67-63-0
Ammonia hydroxide	1336-21-6
Surfactant	-
Potassium hydroxide	1310-58-3

New Jersey Right To Know

Water	7732-18-5
Acrylic Copolymer	Not Assigned
MCP Styrene Acrylic Polymer	Not Assigned
Resin Flakes	Not Assigned
Isopropanol	67-63-0
Ammonia hydroxide	1336-21-6

New Jersey Trade Secret :
Registry Number for the
product (NJ TSRN)

California Prop. 65

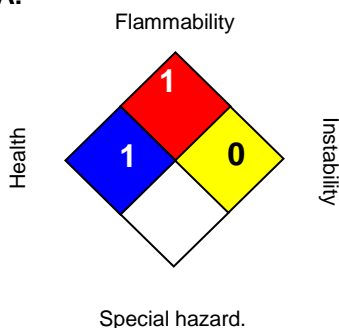
 **WARNING:** This product can expose you to chemicals including alpha-methylstyrene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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SECTION 16. OTHER INFORMATION**Further information****NFPA:****HMIS III:**

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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