

A. G. Layne, Inc.

SAFETY DATA SHEET

SDS Distribution: The information in this document should be made available to all who may handle the product.

A.G. Layne, Inc. urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. It is the Buyer's/User's responsibility to ensure that his activities comply with all Federal, State, Provincial or Local laws. The information presented here pertains only to the product as shipped. The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. NO warranty or guarantee is expressed or implied regarding the accuracy of this data or the results to be obtained from the use of the product.

Product ID 401 Water Miscible Wash

SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID: 401 Water Miscible Wash
Product Name: 401 Water Miscible Wash
Revision Date: May 11, 2015 **Date Printed:** Oct 06, 2015
Version: 1.1 **Supersedes Date:** May 11, 2015
Manufacturer's Name: A. G. Layne, Inc.
Address: 4578 Brazil Street Los Angeles, CA, US, 90039
Emergency Phone: CHEMTREC US : 1-800-424-9300, INTERNATIONAL CALLS : 1-703-527-3887
Information Phone: 323-245-2345
Fax:
Product/Recommended Uses: Graphic arts chemistry

SECTION 2) HAZARDS IDENTIFICATION

Classification:

Specific Target Organ Toxicity -Single Exposure (Narcotic Effects) - Category 3
Specific Target Organ Toxicity - Repeated Exposure - Category 1
Aspiration Hazard - Category 1
Skin Irritation - Category 3
Germ Cell Mutagenicity - Category 1B
Carcinogenicity - Category 1B
Reproductive Toxicity - Category 2
Flammable Liquids Category 2
Acute aquatic toxicity - Category 3
Chronic aquatic toxicity - Category 3

Pictograms:



Signal Word:

Danger

Hazardous Statements - Physical:

Highly flammable liquid and vapor

Hazardous Statements - Health:

May be fatal if swallowed and enters airways
May cause cancer.
May cause genetic defects.
Suspected of damaging fertility or the unborn child.
Causes mild skin irritation
Causes damage to organs through prolonged or repeated exposure.
May cause drowsiness or dizziness

Hazardous Statements - Environmental:

- Harmful to aquatic life
- Harmful to aquatic life with long lasting effects

Precautionary Statements - General:

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.

Precautionary Statements - Prevention:

- Avoid release to the environment.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use only non-sparking tools.
- Take action to prevent static discharges.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash with soap and water thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.

Precautionary Statements - Response:

- IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- Do NOT induce vomiting.
- IF exposed or concerned: Get medical advice/attention.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse with water or shower.
- In case of fire: Use DRY chemical, alcohol- resistant foam, water spray/fog or carbon-dioxide to extinguish.
- If skin irritation occurs: Get medical advice/attention.
- Get Medical advice/attention if you feel unwell.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER/doctor if you feel unwell.

Precautionary Statements - Storage:

- Store locked up.
- Store in a well-ventilated place. Keep cool.
- Store in a well-ventilated place. Store locked up.

Precautionary Statements - Disposal:

- Dispose of contents/container to disposal recycling center.
- Waste management should be in full compliance with federal, state and local laws.

Acute toxicity of 2.57% of the mixture is unknown

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0064742-88-7	MEDIUM MINERAL SPIRITS	72.465%
0064742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	17.136%
0000095-63-6	1,2,4-TRIMETHYLBENZENE	3.427%
0000108-67-8	MESITYLENE	2.570%

0000526-73-8	1,2,3-TRIMETHYLBENZENE	2.570%
0001330-20-7	XYLENE	0.343%
0000098-82-8	CUMENE	0.343%
0000108-88-3	TOLUENE	0.017%
0000071-43-2	BENZENE	0.017%

SECTION 4) FIRST-AID MEASURES

Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

Eliminate all ignition sources if safe to do so.

Skin Contact:

Rinse/wash with lukewarm, gently flowing water (and mild soap) for 15-20 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention.

Eye Contact:

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Take care not to rinse contaminated water into the unaffected eye or onto the face. Get immediate medical attention.

Ingestion:

Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position. Immediately call 911 POISON CENTER/doctor/. Immediately transport to the nearest medical facility for treatment.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Dry chemical, foam, carbon dioxide or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

Unsuitable Extinguishing Media:

No data available.

Specific Hazards in Case of Fire:

Containers exposed to intense heat from fires should be cooled with large quantities of water. The vapour is heavier than air, spreads along the ground and distant ignition is possible.

Fire-fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

RELEASE CAN CAUSE FIRE/EXPLOSION. LIQUIDS/VAPORS MAY IGNITE.

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

Recommended Equipment:

Positive pressure, full-facepiece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:

Avoid breathing vapor. Avoid contact with skin, eye or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use explosive proof equipment. Avoid inhalation of dust and contact with skin and eyes. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning up:

Dike and contain spill. For large spills remove by mechanical means and place in containers. Absorb residue or small spills with absorbent material and remove to non-leaking containers for disposal.

SECTION 7) HANDLING AND STORAGE

General:

- Wash hands after use.
- Do not get in eyes, on skin or on clothing.
- Do not breathe vapors or mists.
- Use good personal hygiene practices.
- Eating, drinking and smoking in work areas is prohibited.
- Remove contaminated clothing and protective equipment before entering eating areas.
- Eyewash stations and showers should be available in areas where this material is used and stored.

Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material. Ensure that all local regulations regarding handling and storage facilities are followed.

Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:

- Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.
- Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.
- Ground and bond containers and receiving equipment. Avoid static electricity by grounding.
- Electrostatic charges may be generated during pumping. Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products.
- Emergency response coordinator must have mandated training. Store away from oxidizers or materials bearing a yellow D.O.T label.

SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over- boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Eye Protection:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

Appropriate Engineering Controls:

Provide enough ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
1,2,3-TRIMETHYLBENZENE								25	125			
1,2,4-TRIMETHYLBENZENE								25	125			

AROMATIC HYDROCARBON MIXTURE >C9	500	2000		1						
BENZENE	1 (a) / 25ceiling		50(a) / 10minutes.	1	1		0.1c		1c	1
CUMENE	50	245		1		1	50	245		
MESITYLENE							25	125		
TOLUENE	200 (a) / 300 ceiling	0.2	500ppm / 10 minutes (a)	1,2			100	375	150	560
XYLENE	100	435		1			100	435	150	655

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH Notations	ACGIH TLV Basis
1,2,3-TRIMETHYLBENZENE							
1,2,4-TRIMETHYLBENZENE							
AROMATIC HYDROCARBON MIXTURE >C9							
BENZENE	0.5	1.6	2.5	8	A1	Skin; A1; BEI	Leukemia
CUMENE	50	246					Eye, skin, & URT irr; CNS impair
MESITYLENE							
TOLUENE	20	0.2			A4	A4; BEI	Visual impair; female repro; pregnancy loss
XYLENE	100	434	150	651	A4	A4; BEI	URT & eye irr; CNS impair

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Note:

When you see the word "Estimate", understand that this information is strictly that, and no test data is/was available to determine the value.

Physical and Chemical Properties

Density	6.79 lb/gal
% Solids By Weight	0.00%
% Solids by Vol	0.00%
Density VOC	6.71 lb/gal
% VOC	98.89%
Ib VOC/lb Solid	0.00 lb/lb
Ib VOC/gal Solid	0.00 lb/gal
VOC Actual	6.71 lb/gal
Specific Gravity	0.81
Density HAPS	0.05 lb/gal
% HAPS	0.72%
Ib HAPS/lb Solid	0.00 lb/lb

lb HAPS/gal Solid	0.00 lb/gal
Density VHAPS	0.05 lb/gal
% VHAPS	0.72%
lb VHAPS/lb Solid	0.00 lb/lb
lb VHAPS/lb Solid	0.00 lb/lb

Appearance	Slightly a straw yellow colored liquid
Odor Threshold	N/A
Odor Description	Characteristic
pH	N/A
Water Solubility	N/A
Flammability	Flashpoints at or above 100 °F and less than 200 °F
Flash Point Symbol	C
Flash Point	40 Estimate °C
Viscosity	N/A
Lower Explosion Level	N/A
Upper Explosion Level	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Freezing Point	N/A
Melting Point	N/A
Low Boiling Point	N/A
High Boiling Point	N/A
Auto Ignition Temp	N/A
Decomposition Pt	0
Evaporation Rate	N/A
Coefficient Water/Oil	N/A
VOC Composite Partial Pressure	1.32773 mmHg (Calculated @ 20 C/68 F)

SECTION 10) STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of use.

Conditions to Avoid:

Avoid heat, sparks, open flames and other ignition sources.

Hazardous Reactions/Polymerization:

No data available.

Incompatible Materials:

Strong oxidizing agents.

Hazardous Decomposition Products:

Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

SECTION 11) TOXICOLOGICAL INFORMATION

Acute toxicity:

May be harmful if swallowed. Will be irritating to the gastro intestinal tract. May cause vomiting.

Skin Corrosion/Irritation:

Prolonged contact may result in defatting.

Causes mild skin irritation

Serious eye damage/irritation:

No data available

Germ cell mutagenicity:

May cause genetic defects.

Respiratory/Skin Sensitization:

Irritating to the respiratory tract.

Carcinogenicity:

May cause cancer.

Reproductive toxicity:

Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure:

Prolonged or repeated contact may result in damage to CNS, liver and kidneys.

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard:

May be fatal if swallowed and enters airways

Specific Target Organ Toxicity - Single Exposure:

May cause drowsiness or dizziness

0000108-88-3	TOLUENE
0001330-20-7	XYLENE
0000071-43-2	BENZENE
0000095-63-6	1,2,4-TRIMETHYLBENZENE
0000098-82-8	CUMENE
0000108-67-8	MESITYLENE

Chronic Exposure

0000098-82-8 CUMENE

TERATOGENIC EFFECTS:Cumene has been Classified as POSSIBLE for humans.

0000108-88-3 TOLUENE

TERATOGENIC EFFECTS:Toluene has been Classified as POSSIBLE for humans.

0001330-20-7 XYLENE

Xylene in high concentrations has caused embryotoxic effects in laboratory animals.

High exposure to Xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus.

Potential Health Effects - Miscellaneous

0000108-88-3 TOLUENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, respiratory system, skin. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

0001330-20-7 XYLENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

0064742-88-7 MEDIUM MINERAL SPIRITS

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, respiratory system, skin. This substance may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, lungs, reproductive system, skin. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

0064742-95-6 AROMATIC HYDROCARBON MIXTURE >C9

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

SECTION 12) ECOLOGICAL INFORMATION

Bio-accumulative Potential:

No data available.

Persistence and Degradability:

No data available.

Mobility in Soil:

No data available.

Toxicity:

Harmful to aquatic life

Harmful to aquatic life with long lasting effects

Other adverse effects:

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

Do not contaminate used oil with solvents or other chemicals.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:

Non-Regulated Material, Flash Point above 100 Deg. F

Emergency Response Guide (ERG):

Emergency Response Guide 128

SECTION 15) REGULATORY INFORMATION

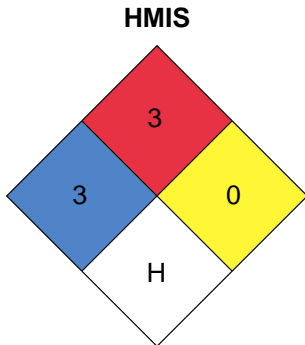
CAS	Chemical Name	% By Weight	Regulation List
0064742-88-7	MEDIUM MINERAL SPIRITS	72.465%	SARA312,VOC,TSCA
0064742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	17.136%	SARA312,VOC,TSCA,OSHA
0000095-63-6	1,2,4-TRIMETHYLBENZENE	3.427%	SARA312,SARA313,VOC,TSCA
0000108-67-8	MESITYLENE	2.570%	SARA312,VOC,TSCA
0000526-73-8	1,2,3-TRIMETHYLBENZENE	2.570%	SARA312,VOC,TSCA
0001330-20-7	XYLENE	0.343%	CERCLA,SARA312,SARA313,VOC,IARCCarcinogen,TSCA,RCRA,CA_TAC_TOX,NEI - National Emissions Inventory,OSHA
0000098-82-8	CUMENE	0.343%	CERCLA,SARA312,SARA313,VOC,TSCA,RCRA,CA_TAC_TOX,CA_Carcinogen,NEI - National Emissions Inventory,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer,OSHA, OSHA Skin designation
0000108-88-3	TOLUENE	0.017%	CERCLA,SARA312,SARA313,VOC,IARCCarcinogen,TSCA,RCRA,CA_TAC_TOX,NEI - National Emissions Inventory,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Develop - CA_Proposition65_Type_Toxicity_Developmental,OSHA


0000071-43-2	BENZENE	0.017%	CERCLA,SARA312,SARA313,VOC,IARCCarcinogen,TSCA,RCRA, OSHA Carcinogen,CA_TAC_TOX,CA_TAC_Carcinogen,CA_Carcinogen,NEI - National Emissions Inventory,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer,CA_Prop65_Type_Toxicity_Develop - CA_Proposition65_Type_Toxicity_Developmental,CA_Prop65_Type_Toxicity_Male - CA_Proposition65_Type_Toxicity_Male,OSHA
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SECTION 16) OTHER INFORMATION

General:

A.G. Layne, Inc. urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. It is the Buyer's/User's responsibility to ensure that his activities comply with all Federal, State, Provincial or Local laws. The information presented here pertains only to the product as shipped. The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. NO warranty or guarantee is expressed or implied regarding the accuracy of this data or the results to be obtained from the use of the product.



Chronic : 

Version 1.1:

Change in Section 8-Respirator

DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither A. G. Layne, Inc. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. 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. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.