A Breakthrough Breaking Down Solvents.

Never one to stop short of perfection, Flexo Shine has finally developed the perfect solvent solution. Flexo Shine™ Solvent Wash is specifically designed for cleaning solvent ink in flexographic plate wash machines. Simply replace the less effective, outdated product in your plate wash machine with Flexo Shine™ Solvent Wash and see an immediate improvement in cleaning!

Our proprietary AMPHO-TERTM solvent technology ensures that Flexo Shine Solvent Wash works on both water-based and solvent-based print inks. In keeping with the Flexo Shine™ pledge to help maintain a safer environment, Solvent Wash is also non-flammable, lower in VOC, biodegradable, and Diacetone
Alcohol free.*

Flexo Shine Solvent Wash offers numerous benefits:
- Removes all types of coatings
- Cuts all ink, fast
- Made with AMPHO-TERTM solvent technology
- Biodegradable
- Does not contain Diacetone Alcohol (highly toxic to animals) *

Proudly Made in America

*M. Kitulagodage, L.B. Astheimer, W.A. Butteme
Ecotoxicology and Environmental Safety 71 (2008) 597–600

Replace your tired, old automatic plate wash chemicals with Flexo Shine™ Solvent Wash to see cleaner results and better productivity!

FLEXO SHINE™

SOLVENT WASH TECHNICAL DATA

GLOBAL HARMONIZATION
WARNING! (EXCLAMATION SYMBOL)
Causes serious eye irritation. Causes skin irritation.

P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P362+P363 Take off contaminated clothing and wash contaminated clothing before
reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local, state, and federal rules.

PERSONAL PROTECTION
For your safety, we recommend these precautions when using Solvent Wash:

- Safety glasses
- Nitrile gloves
- General ventilation

PHYSICAL PROPERTIES
The Solvent Wash formula results in safe physical properties:

- pH Neat: 6.5 - 8.5
- Specific Gravity: 0.84 g/ml
- Total VOC: <450 g/L
- Color: Clear/Natural
- Odor: Sweet
- Flash Point: >200F (TCC)

DOT SHIPPING INFORMATION
Not regulated by DOT

OTHER REGULATORY
Contains N230 Glycol Ethers <50%

SOLVENT WASH INSTRUCTIONS

Solvent Wash is an aggressive organic-based cleaner for oil and water-based ink, so it's important to follow these instructions for use:

1. Dilute Solvent Wash 50/50 with water.
2. Add the chemical solution to your plate machine chemical reservoir.
3. Operate machine per your manufacturer's instruction.

Tip: While heating Solvent Wash for cleaning is acceptable, it is not necessary. Heating Solvent Wash may improve cleaning; however, it will also lead to much quicker evaporation, costing more money per wash. In lieu of heating Solvent Wash, we recommend a longer wash cycle.

SOLVENT WASH FIRST AID

SHOULD YOU NEED TO PERFORM FIRST AID RELATED TO SOLVENT WASH, WE RECOMMEND THE FOLLOWING:

- INGESTION: Drink two large glasses of water and seek medical attention.
- SKIN: Flush thoroughly with water and seek medical attention if irritation persists.
- EYES: Flush thoroughly with water and seek medical attention if irritation persists.
- INHALATION: Remove patient to fresh air and give artificial respiration.

Never give anything by mouth to an unconscious person. If patient is not breathing, ADMINISTER FIRST AID TREATMENT LISTED ABOVE, THEN CALL 1-800-851-7145 ext. 875 OR CONTACT A PHYSICIAN FOR FURTHER MEDICAL INSTRUCTION.

Flexo Shine™ Springfield, MO 417-434-6388 flexoshine.com

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SAFETY DATA SHEET

Last Revision Date 11/20/2018
Date Prepared 8/27/2015

Solvent Wash

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER

Product Name • Solvent Wash

Product Formula • 9145

RELEVANT IDENTIFIED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

Relevant Use • Water-based cleaner for oil-based printing inks.

SUPPLIER DETAILS

• Flexo Shine
PO Box 216
Nixa MO 65714
Ph: 417-434-6388
orders@flexoshine.com

SECTION 2: HAZARD IDENTIFICATION

United States (US) - According to OSHA 29 CFR 1920.1200 Hazard Communication Standard

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Hazard Classification •
Serious Eye Damage/Eye Irritation - 2A
Skin Corrosion/Irritation - 2

LABEL ELEMENTS

Signal Word and Pictogram •
Warning
Warning

HAZARD STATEMENTS

H315	Causes skin irritation
H319	Causes serious eye irritation

PRECAUTIONARY STATEMENTS

P264	Wash thoroughly after handling.
P264	Wash thoroughly after handling.

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment for active ingredient poisoning is required.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337	If eye irritation persists: consult a doctor.

OTHER HAZARDS •

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

SECTION 3: COMPOSITION INFORMATION ON

Chemical Identity	CAS	Percent Weight
2-Butoxyethanol	111-76-2	50
No other reportable hazardous materials.	N/A	

SECTION 4: FIRST AID MEASURES

INHALATION • If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Call a physician immediately.

SKIN • Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash clothing before reuse.

EYE • Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician if irritation persists.

INGESTION • Do not induce vomiting. Never give anything by mouth to an unconscious person. Dilute by drinking two large glasses of water. Call a physician immediately.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA • Use non-flammable or non-explosive extinguishing media.

SPECIFIC •

HAZARDS

No known unusual hazards in a fire or explosion situation.

SPECIAL PROTECTIVE ACTIONS FOR FIREFIGHTERS

- In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

FOR NON-EMERGENCY PERSONNEL

- For non-emergency personnel, ventilate area of leak or spill and remove all ignition sources. Wear appropriate personal protective equipment as required to prevent any contamination of skin, eyes, and personal clothing. Isolate release area. Do not touch or walk through spilled material unless wearing the appropriate protective equipment. Keep unnecessary and unprotected personnel from entering.

FOR EMERGENCY RESPONDERS

- For emergency responders, as an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

ENVIRONMENTAL PRECAUTIONS

ACCIDENTAL RELEASE ENVIRONMENTAL

- Stop leak if you can do it without risk. If possible, keep from entering into drains, surface water, or ground water. This product is biodegradable.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

CONTAINMENT AND CLEANUP

- Contain and recover liquid when possible. Cover drains or cap spill when safe. Collect liquid in an appropriate container or absorb with an inert material (e.g. vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Small spills may be flushed to the sanitary sewer with approval from local authorities.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

- Protect against physical damage. Store in a cool, dry well-ventilated location. Avoid storing in direct sunlight when possible. Separate from incompatible materials such as strong acids or strong bases. Do not store in containers made from soft metals such as aluminum, magnesium, zinc, or galvanized steel.

CONDITIONS FOR SAFE STORAGE AND INCOMPATIBILITIES

- Protect against physical damage. Store in a cool, dry well-ventilated location. Avoid storing in direct sunlight when possible. Separate from incompatible materials such as strong acids or strong bases. Do not store in containers made from soft metals such as aluminum, magnesium, zinc, or galvanized steel.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

Chemical Identity	CAS	TLV

2-Butoxyethanol	111-76-2	50 ppm
No other reportable hazardous materials.	N/A	N/A

APPROPRIATE ENGINEERING CONTROLS

- Use adequate ventilation systems as needed to maintain air concentrations below occupational exposure standards.

INDIVIDUAL PROTECTIONS MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

EYE / FACE PROTECTION
- Chemical safety glasses.

SKIN PROTECTION
- Nitrile gloves.

RESPIRATORY PROTECTION
- None required under normal use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid.	**Lower Limits**	Not available.
Odor	Semi-sweet smell.	**Vapor Pressure**	Not available.
pH	7.5 - 9.5	**Vapor Density**	Not available.
Melting Freezing Point	Not available.	**Relative Density**	0.9 g/ml
Initial Boiling Point	Not available.	**Solubility**	Miscible with water.
Flash Point	Does not flash.	**Partition Coefficient**	Not available.
Evaporation Rate	Not available.	**Auto Ignition Temp**	Not available.
Flammability	Not available.	**Decomposition Temp**	Not available.
VOC (g/L)	<450 g/L	**Viscosity**	Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity
- No dangerous reaction known under conditions of normal use.

Chemical Stability
- Stable under normal temperatures and pressures.

Possibility of Haz Rxns
- Will not occur.

Conditions to Avoid
- No unusual conditions.

Incompatible Materials
- Do not mix with strong acids or bases. Do not mix with any other chemical unless instructed to do so by the manufacturer.

Hazardous Decomposition
- In case of fire, oxides of carbon, hydrocarbons, fumes or vapors, soot, and smoke may be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Acute Toxicity	No specific information available for mixture.
Skin Corrosion/Irritation	No specific information available for mixture.
Serious Eye Damage/Irritation	No specific information available for mixture.
Respiratory or Skin Sensitization	No specific information available for mixture.
Germ Cell Mutagenicity	No specific information available for mixture.
Carcinogenicity	No specific information available for mixture.

Reproductive Toxicity	No specific information available for mixture.
STOT Single Exposure	No specific information available for mixture.
STOT Repeated Exposure	No specific information available for mixture.
Aspiration Hazard	No specific information available for mixture.

Target Organs	Skin.
Routes of Entry Exposure	Ingestion, inhalation, skin, eye.Ingestion, inhalation, skin, eye.

POTENTIAL HEALTH EFFECTS

INHALATION ACUTE	• May irritate nose, throat and lungs.
INHALATION CHRONIC	• Vapors or mists may aggravate pre-existing lung conditions.
SKIN ACUTE	• May cause irritation. Prolonged exposure may cause redness or pain. and should be avoided.
SKIN CHRONIC	• Sensitivity of the skin may occur with repeated, prolonged exposure.
EYE ACUTE	• May cause redness, tearing, swelling and pain. Prolonged exposure to eyes should be avoided.
EYE CHRONIC	• No data available.
INGESTION ACUTE	• May irritate gastrointestinal tract. Ingestion of large amounts may cause nausea, vomiting and diarrhea.
INGESTION CHRONIC	• No data available.

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY	• Not enough information on the mixture is available.
PERSISTENCE & BIODEGRADABILITY	• Not enough information on the mixture is available. The components of the mixture are determined as either readily biodegradable or inherently biodegradable. It is
BIOACCUMULATIVE POTENTIAL	• Not enough infomation on the mixture is available.
MOBILITY IN SOIL	• Not enough infomation on the mixture is available.
OTHER ADVERSE EFFECTS	• Not enough infomation on the mixture is available.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS	• Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14: TRANSPORT INFORMATION

TRANSPORT	• Not regulated by D.O.T.
ENVIRONMENTAL HAZARDS	• None known.
SPECIAL PRECAUTIONS	• None known.

SECTION 15: REGULATORY INFORMATION

SARA TITLE III INFORMATION

Chemical Identity	CAS / CAT CODE	PERCENT WT
Glycol Ethers	N230	50

OTHER REGULATORY INFORMATION

- **TSCA (Toxic Substance Control Act):** All ingredients of this product are listed on the TSCA inventory.
- **CARCINOGENICITY:** Not listed by IARC, NTP, or OSHA.
- **CALIFORNIA PROPOSITION 65:** This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins which would be subject to the proposition.

SECTION 16: OTHER INFORMATION

Last Revision Date 11/20/2018 **Date Prepared** 8/27/2015

KEY TO ABBREVIATIONS

N/E = Not Established. CAS = Chemical Abstract Service. ppm = Parts Per Million
g/L = Grams per Liter mg/m3 = milligrams per cubic meter

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