

Restore Print. Restore Profit.



In the flexographic print world, investing in a deep cleaner with the power to restore anilox roll cell volume is critical to quality and profits. The poor print quality that comes with clogged print cells in your anilox roll can leave your company's reputation spotty at best. Thankfully, Flexo Shine™ Deep Clean will restore your print cells to maximum cell volume, easily and safely! The innovative science behind Deep Clean outperforms all other deep cleaning solutions on the market.

Most deep clean products use an oil and water mixture. What sets Deep Clean apart is our focus on Phase Balancing. By balancing our mixture precisely at the oil-water phase point, Deep Clean results in a clean anilox roll and full print volume. Fast! In keeping with the Flexo Shine™ pledge to help maintain a safer environment, the Deep Clean formula also features biodegradable ingredients and an environmentally sustainable solvent—derived from citrus plants—rather than any harmful petroleum solvents. Try Deep Clean to restore print and restore profit!

The benefits of Flexo Shine Deep Clean run deep:

- Removes all types of water-based inks and coatings
- Exceptional at removing ink with print extender
- Contains no petroleum solvents
- Inherently biodegradable
- Incredibly easy to use
- Works quickly

Proudly Made in America



*Restore full print volume fast!
Use Flexo Shine™ Deep Clean
with Phase Balancing to re-
store your print quality and to
restore your profits.*



FLEXO SHINE™



DEEP CLEAN TECHNICAL DATA

GLOBAL HARMONIZATION

DANGER (FLAMMABLE SYMBOL)

Causes severe skin burns and eye damage. Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective nitrile gloves and safety glasses. Avoid contact with skin or clothes.

P260 Do not breathe dust/fumes/gas/mist/vapour/spray.

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.

P310 Immediately call a POISON CENTER or doctor/physician.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated

clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P321 Specific treatment for active ingredient poisoning is required.

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 Deep Clean:

- Safety glasses
- Nitrile gloves
- General ventilation

PHYSICAL PROPERTIES

The Deep Clean formula results in safe physical properties:

- pH Neat: 13.6
- Specific Gravity: 1.10 g/ml
- Total VOC: 267 g/L
- Color: Orange
- Odor: Citrus
- Flash Point: >200F (TCC)

DOT SHIPPING INFORMATION

UN1814, Potassium Hydroxide Solution, 8, PGIII

OTHER REGULATORY

Contains N230 Glycol Ethers <6%



DEEP CLEAN INSTRUCTIONS

Deep Clean is an ultra-powerful cleaner that is safe on anilox. Wear proper protective equipment when handling, and follow these instructions for use:

1. Place plastic or another container under anilox to capture any runoff.
2. Apply Deep Clean with a brush or squirt bottle.
3. For best results, scrub Deep Clean into anilox with a stainless steel brush.
4. Allow Deep Clean to penetrate ink in anilox for at least 10 minutes.
5. Rinse with fresh water.
6. Place anilox with full cell volume back into service.

USE INSTRUCTIONS FOR HEAVY-DUTY SPOT CLEANER

Dilute 16:1 parts water and apply directly to dried ink. Wipe with damp cloth.



DEEP CLEAN FIRST AID

SHOULD YOU NEED TO PERFORM FIRST AID RELATED TO DEEP CLEAN, 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.



Deep Cleaner

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER

- Product Name** • Deep Cleaner
- Product Formula** • 9140

RELEVANT IDENTIFIED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

- Relevant Use** • Water-Based Printing Press Cleaner

SUPPLIER DETAILS

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

SECTION 2: HAZARD IDENTIFICATION

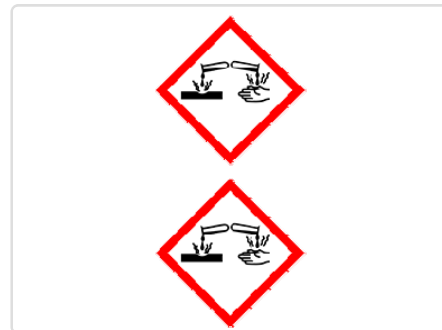
United States (US) - According to OSHA 29 CFR 1920.1200 Hazard Communication Standard

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

- Hazard Classification** • Skin Corrosion/Irritation - 1B
Serious Eye Damage/Eye Irritation - 1

LABEL ELEMENTS

- Signal Word and Pictogram** • Danger
Danger



HAZARD STATEMENTS

- H318 Causes serious eye damage
- H314 Causes severe skin burns and eye damage

PRECAUTIONARY STATEMENTS

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P260 Do not breathe dust/fumes/gas/mist/vapour/spray.

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment for active ingredient poisoning is required.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local, state, and federal rules.

OTHER HAZARDS •



HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

SECTION 3: COMPOSITION INFORMATION ON

Chemical Identity	CAS	Percent Weight
Potassium Hydroxide	1310-58-3	<15
D-Limonene	138-86-3	<20
Water	7732-18-5	>65

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/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. Separate from incompatible materials.

- CONDITIONS FOR** • Protect against physical damage. Store in a cool, dry well-ventilated location. Separate

**SAFE STORAGE AND
INCOMPATIBILITIES**

from incompatible materials.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

Chemical Identity	CAS	TLV
Potassium Hydroxide	1310-58-3	2 mg/m ³
D-Limonene	138-86-3	N/E
Water	7732-18-5	N/E

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 for normal use. Use an approved NIOSH/MSHA air respirator where use may cause overexposure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Light orange liquid.**Odor** Citrus.**pH** 13.6 neat.**Melting Freezing Point** Not available.**Initial Boiling Point** Not available.**Flash Point** Not available.**Evaporation Rate** Not available.**Flammability** Not available.**VOC (g/L)** <500 g/L**Lower Limits** Not available.**Vapor Pressure** Not available.**Vapor Density** Not available.**Relative Density** 1.10 g/ml**Solubility** Not available.**Partition Coefficient** Not available.**Auto Ignition Temp** Not available.**Decomposition Temp** Not available.**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.

POTENTIAL HEALTH EFFECTS

- INHALATION ACUTE** • May irritate or burn nose, throat and lungs.
- INHALATION CHRONIC** • Vapors or mists may aggravate pre-existing lung conditions.
- SKIN ACUTE** • May cause irritation or burns, redness, or severe pain. Prolonged exposure should be avoided.
- SKIN CHRONIC** • Sensitivity of the skin may occur with repeated, prolonged exposure. Scarring of tissue may occur. Permanent numbness or damage to nerve endings is possible.
- EYE ACUTE** • May irritate or burn eyes. Prolonged exposure to eyes may cause permanent damage and should be avoided.
- EYE CHRONIC** • No data available.
- INGESTION ACUTE** • May irritate or burn gastrointestinal tract. Ingestion of large amounts may cause nausea, vomiting and diarrhea or may even be fatal.
- 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 information on the mixture is available.
- MOBILITY IN SOIL** • Not enough information on the mixture is available.
- OTHER ADVERSE EFFECTS** • Not enough information 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	• UN 1814, Potassium Hydroxide Solution, 8, PGIII
ENVIRONMENTAL HAZARDS	• None known.
SPECIAL PRECAUTIONS	• None known.

SECTION 15: REGULATORY INFORMATION

SARA TITLE III INFORMATION

Chemical Identity

CAS / CAT CODE PERCENT WT

None Reportable

OTHER REGULATORY INFORMATION

- **TSCA (Toxic Substance Control Act):** All ingredients of this product are listed active 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 01/26/2024

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

LIABILITY DISCLAIMER

- This SDS provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. THIS SDS MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, THIS SDS DOES NOT REMIT RESPONSIBILITY FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.