

Ultrasonic Cleaning. The Sound Decision.



Cleaning anilox rolls is difficult. Cleaning fine-line screen anilox is even more difficult. Powered by sound, ultrasonic cleaning has revolutionized the way anilox rolls are restored. Ultrasonic cleaning is effective, less damaging, and easy. That said, even the best ultrasonic cleaner is useless without a strong cleaning solution to help emulsify and sequester the ink that gets blasted from anilox cells. When your company reputation—and bottom line—is built on quality printing, you need full cell volume from your anilox. That's why Flexo Shine developed Shock Wave Elite™, the best in ultrasonic cleaning for your water-based and UV flexographic anilox. Period.

Specifically designed and painstakingly tested for removing stubborn ink, our advanced polymer system delivers unsurpassed results. Our sequestering additives ensure that you get a longer-lasting product and more rolls washed per order. In short, Shock Wave Elite provides more value, lower costs, and better print. Anything less simply wouldn't warrant the name Elite.

Embrace the proven benefits of Shock Wave Elite:

- Ideal for ultrasonic cleaning
- Effective on water-based, UV, and varnish inks
- Long lasting for better value
- Will not harm anilox rolls
- Improves cell volume
- Made from readily biodegradable ingredients

Proudly Made in America



You demand the best for your business. That is why we developed Flexo Shine™ Shock Wave Elite. It is the best ultrasonic cleaner on the market... period.



FLEXO SHINE™



SHOCK WAVE ELITE 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 Shock Wave Elite:

- Safety glasses
- Nitrile gloves
- General ventilation

PHYSICAL PROPERTIES

The Shock Wave Elite formula results in safe physical properties:

- pH Neat: 13.45
- Specific Gravity: 1.10 g/ml
- Total VOC: 0 g/L
- Color: Clear/Natural
- Odor: Little Odor
- Flash Point: Does Not Flash (TCC)

DOT SHIPPING INFORMATION

UN1824, Sodium Hydroxide Solution, 8, PGIII

OTHER REGULATORY

Contains No SARA Title III Listed Materials



SHOCK WAVE ELITE INSTRUCTIONS

For best results and longer-life out of your cleaning solution:

1. Add Shock Wave Elite to your ultrasonic chemical reservoir undiluted.
2. Follow your manufacturer's guide on setting ultrasonic frequency.
3. Heating is not required for Shock Wave Elite.
4. Wash times may vary; however, wash times are typically completed within 30 minutes.
5. Monitor your concentration in your chemical reservoir by using pH if possible. For best results, maintain a pH above 12.8 at all times.
6. As water evaporates from ultrasonic tub, add fresh water as make-up water. Add detergent when cleaning performance is reduced. Consult your Flexo Shine representative for more information.

Tip: While not required, a fresh water rinse after cleaning will help reduce any detergent residues on the anilox.



SHOCK WAVE ELITE FIRST AID

SHOULD YOU NEED TO PERFORM FIRST AID RELATED TO SHOCK WAVE ELITE, 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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FLEXO SHINE™

Shock Wave Elite

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER

- Product Name** • Shock Wave Elite
- Product Formula** • FS-9143

RELEVANT IDENTIFIED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

- Relevant Use** • Printing cleaner for ultrasonic machines.

SUPPLIER DETAILS

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

SECTION 2: HAZARD IDENTIFICATION

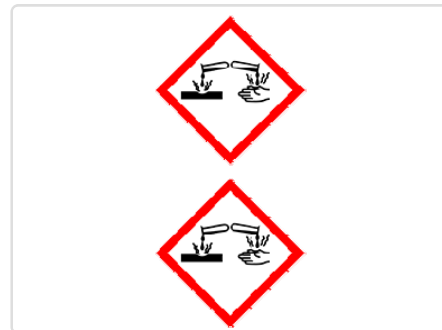
United States (US) - According to OSHA 29 CFR 1920.1200 Hazard Communication Standard

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

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

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.
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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
Sodium Hydroxide	1310-73-2	<8
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/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 SAFE STORAGE AND INCOMPATIBILITIES

- Protect against physical damage. Store in a cool, dry well-ventilated location. Separate from incompatible materials.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

Chemical Identity	CAS	TLV
Sodium Hydroxide	1310-73-2	2 mg/m ³
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 for normal use. Use an approved NIOSH/MSHA air respirator where use may cause overexposure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear liquid.

Odor Little odor.

pH 13.6 neat.

Melting Freezing Point Not available.

Initial Boiling Point Not available.

Flash Point Does not flash.

Evaporation Rate Not available.

Flammability Not available.

VOC (g/L) 0 g/L

Lower Limits Not available.

Vapor Pressure Not available.

Vapor Density Not available.

Relative Density 1.08 g/ml

Solubility Miscible with water.

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 1824, Sodium Hydroxide Solution, 8, PGII
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 01/29/2024

Date Prepared 8/28/2015

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

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