

Emulsify. Simplify. Purify.



Why are so many people convinced A.C.E. is the most powerful water-based ink cleaner in the industry? They've seen it in action. A unique flexographic anilox cleaner, A.C.E. emulsifies dried ink in seconds and simplifies preventive maintenance with a single, environmentally safe cleaner for many uses. It's designed for the entire plant, from floors to presses to spray cabinet machines—for cleaning anilox rolls, doctor blades, printing parts, and plates.

A.C.E. delivers incredible results with virtually no harmful elements:

- Emulsifies new and old ink, washing it away effortlessly
- Reduces expenses with lower cleaning costs
- Attacks ink that dried months ago without damaging paint or equipment
- Cleans thoroughly without harming employees or the environment
- Contains no caustic chemicals and is non-corrosive
- Meets California compliance laws for low VOCs
- Reduces need for corrosive deep cleaners

Proudly Made in America



Cleaning any anilox system is affordable, fast, and simple with A.C.E., the powerful yet environmentally friendly ink emulsifier.

Also works on UV inks.



FLEXXO SHINE™



A.C.E. TECHNICAL DATA

A.C.E. is the best cleaner on the market at removing ink that's been dried for months on anilox rolls and equipment. Using the latest ink dissolution technology, A.C.E. breaks down new and old ink, effortlessly washing any ink away—including UV ink. A.C.E. is safe for employees and will not damage the paint on equipment. A.C.E. does not contain any caustic chemicals or nonylphenols and is biodegradable.

PERFORMANCE BENEFITS

A.C.E. has many excellent benefits:

- Contains only non-caustic and biodegradable elements
- Outperforms caustic solutions
- Breaks down and emulsifies ink
- Works safely around employees and on equipment
- Improves print quality

PHYSICAL PROPERTIES

The A.C.E. formula leads to safe physical properties:

- pH Neat: 13.28
- Specific Gravity: 1.01
- Total VOC: 40.9 g/L
- Color: Orange
- Odor: Citrus

AVAILABLE SIZES

A.C.E. is available in six different sizes:

- 1-Quart (0.95L), 12/1 Case
- 1-Gallon (3.8L), 4/1 Case
- 5-Gallon (19L)
- 15-Gallon (57L)
- 55-Gallon (209L)

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B



A.C.E. INSTRUCTIONS

A.C.E. INSTRUCTIONS

Using A.C.E. is simple and fast:

1. Spray A.C.E. on heavy ink.
2. Allow ample time for the cleanser to penetrate the ink.
3. Rinse with fresh water.

FLEXO SHINE™ RECOMMENDATIONS

FOR PEAK PERFORMANCE WITH A.C.E., WE RECOMMEND THE FOLLOWING:

- Brush or rinse with high-pressure water.
- For lighter-duty cleaning, dilute A.C.E. with water to 50/50.



A.C.E. FIRST AID

SHOULD YOU NEED TO PERFORM FIRST AID RELATED TO A.C.E., 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.



ACE

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER

- Product Name • ACE
- Product Formula • 9109

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 • 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	<6
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** •

No known unusual hazards in a fire or explosion situation.

HAZARDS

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. This product is not flammable. If container is on fire, stay out of smoke. 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 storm 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. No special storage requirements. 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. No special storage requirements. 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

- None required under normal, temporary use. For long periods of contact, nitrile gloves are recommended.

RESPIRATORY PROTECTION

- None required under normal use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Appearance** Clear orange liquid.**Odor** Citrus odor.**pH** 13.26 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)** 41 g/L**Lower Limits** Not available.**Vapor Pressure** Not available.**Vapor Density** Not available.**Relative Density** 1.03 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. Ingestion, inhalation, skin, eye.

POTENTIAL HEALTH EFFECTS

INHALATION ACUTE	• May irritate nose, throat and lungs with continuous, non-interrupted use.
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 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	• Small amounts of product may be disposed into a sanitary sewer, where allowed by local authorities. 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.
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SECTION 14: TRANSPORT INFORMATION

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

SECTION 15: REGULATORY INFORMATION

SARA TITLE III INFORMATION

Chemical Identity	CAS / CAT CODE	PERCENT WT
Glycol Ethers	N230	<6

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 07/24/2023

Date Prepared 2/10/2015

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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