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Revision Date
March 2014

Section 1: Product Identification

Product Type: Air entraining agent

Product Name:

Akona Liquid Air Entraining Admixture

Section 2: Hazard Identification

Product poses little hazard in ordinary use. Some eye irritation may occur from direct contact.

This product is designed to be mixed with concrete or mortar. See the safety data sheet and follow recommended precautions for the concrete or mortar.

This product has been evaluated according to GHS and 29CFR1910.1200, Appendix A. it is not classified as hazardous under those criteria, and does not require any pictogram, signal word, hazard statements or precautionary statements.

HMIS® Rating: Health: 0 Fire: 0 Reactivity: 0
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Section 3: Hazardous Ingredients/Composition

Ingredient	Typical Percentage	CAS #
Water.....	>99%	7732-18-5
Sodium hydroxide	<0.1%	1310-73-2
Rosin blend	<1%	*

*Specific chemical identity withheld as trade secret. It is available upon request to health professionals, employees and their designated representatives in accord with 29CFR1910.1200(i).

Section 4: First Aid Measures

Inhalation:

Unlikely to be an inhalation hazard.

Eye contact:

Hold eyelids apart and flush eyes with plenty of water. If any irritation persists, get medical attention.

Skin Contact:

Wash off with soap and water.



Ingestion:

Check with the Poison Control Center or a doctor. Do not induce vomiting unless directed to do so by medical personnel.

Symptoms of overexposure: Direct contact may cause some eye irritation. Repeated or extensive contact may cause skin irritation and may cause allergic skin reactions (sensitization) in some people.

Note to physician: Treat according to symptoms. No known specific antidote.

Section 5: Fire Fighting Measures

Fire extinguishing media: Appropriate for surrounding materials (carbon dioxide, water spray, dry chemical, foam).

Special fire fighting procedures: none

Unusual fire and explosion hazards: None expected

Hazardous combustion products: carbon monoxide, carbon dioxide, aldehydes, carboxylic acids

Section 6: Accidental Release Measures

Contain and soak up with absorbent material. Clean area with water.

Section 7: Handling and Storage

To protect the product, keep from freezing or excessive heat.

Keep container tightly closed.

Wash hands after use.

Do not eat, drink, or use tobacco products when handling any chemical products.

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:

	OSHA PEL	OSHA 1989 PEL *	ACGIH TLV	NIOSH REL
Sodium hydroxide	2 mg/m ³	2 mg/m ³ (ceiling)	2 mg/m ³ (ceiling)	2 mg/m ³ (ceiling)
Rosin	None established			

*For states that adopted the 1989 PEL revisions (Minnesota, Oregon, Washington, California)

Engineering Controls:

No special measures are needed.

Local exhaust ventilation is not required



Personal protective equipment

Respiratory protection: Not required under conditions of normal use.

Skin protection: Wear water-impermeable gloves such as nitrile, PVC, or natural rubber gloves for prolonged contact.

Eye protection: Wear eye protection (chemical safety goggles are recommended to protect against splashes).

Section 9: Physical and Chemical Properties

Appearance and odor: amber colored liquid

Flash point: noncombustible.

Flammable limits: N/A

Boiling Point: ~212°F (estimated)

Freezing point: ~ 32°F (estimated)

Specific Gravity: 1.0

Solubility in water: miscible

pH: <10

Evaporation rate (butyl acetate = 1): <1 (equivalent to water)

Vapor pressure: negligible

Section 10: Stability and Reactivity

Stability: stable

Conditions to avoid: none known.

Incompatibility: strong acids

Hazardous polymerization: will not occur

Hazardous decomposition products: none likely.

Section 11: Toxicological Information

Not considered acutely toxic.

No ingredients are listed as carcinogenic according to IARC, ACGIH, NTP, or OSHA.

Rosins have been reported to cause sensitization, an allergic skin reaction, in some people after repeated or prolonged contact

Toxicology data for similar rosins:

LD50 (oral, rat, acute): >4 g/kg

LD50 (oral, guinea pig, acute): >2.5 g/kg

NOEL

Rosin LC50 (zebra fish, 96 hour): 5.2 mg/L

EC50 (Daphnia magna, 48 hour): 76 mg/L

Section 12: Ecological Information

Ecotoxicity Product as a whole has not been tested. Ingredients are not considered toxic to fish, crustaceans, or algae



Persistence and degradability: readily biodegrades

Mobility in soil: Based on ingredients, mobile. Unlikely to adsorb onto soil or sediment.

Bioaccumulation: based on ingredients, not likely to bioaccumulate.

Section 13: Disposal Considerations

Do not dump on the ground

As provided, not a RCRA-regulated waste.

Dispose of in accordance with federal, state, and local regulations.

Section 14: Transportation

Not a DOT-regulated hazardous material. Not classified as dangerous goods for DOT, IATA, IMDG, TDG

Section 15: Regulatory Information

This product does not contain 0.1% or more of any

- chemicals regulated under:
CERCLA
SARA 302 EHS
SARA 313
SARA 311/312
- Hazardous Air Pollutants.
- chemicals known to the state of California to cause cancer or reproductive effects.
- Chemicals listed on the New Jersey Right to Know Hazardous Substance List.

Section 16: Other Information

Additional information on the product is available at: www.tccmaterials.com

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products. Before using any product, read its label and safety data sheet.