Safety Data Sheet in accordance with Regulation (EU) No. 453/2010 and OSHA 29 CFR 1910.1200 HCS

ASTRO-SOL A-XBP

1. Identification of the Substance/ Mixture and of the Company/ Undertaking

Product Name: ASTRO-SOL A-XBP

Preparation Date: May 27, 2015
Revision Date: February 20, 2019

Recommended Use: Metalworking Fluid

Supplier: MONROE FLUID TECHNOLOGY
36 Draffin Road,
Hilton, NY 14468

Phone: 800-828-6351 585-392-3434
EMERGENCY NUMBERS: CHEMTREC (800) 424-9300 Monroe Fluid Technology (800) 828-6351

2. Hazards Identification

GHS Classification: Eye Irritant – Category 2
H320: Causes eye irritation
Skin Irritant – Category 2
H315: Causes skin irritation

GHS Labeling:

Symbols:

Signal Word: Warning

Precautionary Statements:
P264: Wash thoroughly after handling
P280: Wear protective gloves/ protective clothing/ eye protection
P302 + P352: If on skin, wash with soap and water
P305 + P351 + P338: IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313: If skin irritation occurs, seek medical attention immediately
P337 + P313: If eye irritation persists, seek medical attention immediately
P362: Take off contaminated clothing and wash before reuse
P501: Dispose of contents/ container to an approved waste disposal plant

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] and OSHA 29 CFR 1910.1200 HCS: Skin Irritant – Category 2, Eye Irritant – Category 2

Other Hazards Not Classified: No significant hazards

3. ***Composition/Information on Ingredients***

Mixture: Base oil, emulsifiers and additives.

Chemical Name	CAS Number	Concentration, Wt. %
n-(Butylamino) Ethanol	111-75-1	Trade secret
Triethanolamine	102-71-6	Trade secret
Polyoxyalkylene Oleyl Ether	141-43-5	Trade secret
1,2-Benzisothiazolin-3-one	2634-33-5	Trade secret
Monoethanolamine Salt of Boric Acid	10377-81-8	Trade secret
Base oil	Varies	Trade secret

4. First Aid

Inhalation: If inhaled, move to fresh air. If victim has stopped breathing give artificial respiration, preferably, mouth to mouth. Contact a physician immediately.

Eyes: IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, seek medical attention immediately.

Ingestion: Do not induce vomiting. Contact a physician immediately.

Skin: If on skin, wash with soap and water. If skin irritation occurs, seek medical attention immediately. Take off contaminated clothing and wash before reuse

5. Fire-fighting Measures

Suitable extinguishing media: Carbon dioxide, Dry chemical, Alcohol foam

Specific hazards: None

Specific protective equipment and precautions for fire fighters: Isolate fire area and deny unnecessary entry. Use dry chemical, alcohol foam or carbon dioxide. Water may be ineffective but should be used to keep fire exposed containers cool. If a spill or a leak has not ignited, use water spray to disperse the vapors. Water spray may be used only to keep fire exposed containers cool, protect personnel attempting to stop leak and disperse vapors.

Unusual Fire and Explosion Hazards: None

Flammability Properties:

Flash point: 355°F (179°C)
Method Used: COC

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Ensure adequate ventilation.

Environmental Precautions: Do not allow spilled material to enter sewers or streams. If material is released, indicate that there is a risk of slipping in the area. If spills are likely to enter any drain, waterway or groundwater, contact the appropriate governmental agency.

Methods and materials for containment: Add dry material to absorb (if large spill, dike to contain). Using recommended protective equipment, pick up bulk of spill and containerize for recovery or disposal. Flush area with water to remove residues.

7. Handling and Storage

Precautions for safe handling: Read label for instructions in use of product. Prevent small spills and leakage to avoid slip hazard. Avoid contact with skin, eyes and clothing. Do not wear contact lenses when handling this product. Keep out of the reach of children. Wash thoroughly after handling. Material can accumulate static charges which may cause an electrical spark (ignition source).

Conditions for safe storage: Store in closed containers in a cool, dry well ventilated area not exposed to sunlight. Maintain closure of bungs. Do not reuse container. Avoid container damage while storing. Do not allow material to be stored below OC. Do not allow material to freeze.
Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, bronze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition; they may explode and cause injury or death. Do not attempt to refill containers since residue is difficult to remove. Empty drums should be completely drained, properly bunged and returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner in accordance with governmental regulations.

8. Exposure Controls/Personal Protection

Control parameters:

Exposure Guidelines: Triethanolamine ACGIH TLV: 5 mg/m^3 Base oil: (Mist) OSHA PEL: 5 mg/m^3

Appropriate engineering controls: Proper protection and controls is dependent upon the potential exposure conditions. No special requirements are needed under ordinary conditions where adequate ventilation is available.

Individual protective measures:

Respiratory protection: General room ventilation should be satisfactory. Exhaust ventilation may be necessary if misting is generated.

Eye protection: Safety glasses with shields or chemical goggles are required. Contact lenses should not be worn if the product could be splashed into the eyes.

Hand protection: Rubber gloves are required for single, short duration exposures and for prolonged or repeated exposures.

Body protection: For single, short duration and for prolonged or repeated exposures to the skin, wear impervious, protective clothing including rubber safety shoes to avoid skin contact.

9. Physical and Chemical Properties

Appearance: Amber liquid
Odor: Bland
Odor Threshold: N/A
pH : @ 5% in water: 9.4 +/- 0.3
Melting point/freezing point: 0C
Initial boiling point and boiling range: >105ºC
Flash Point (COC): 355°F (179°C)
Evaporation Rate: N/D
Flammability (Solid, Gas): N/D
Upper/lower flammability or explosive limits: UEL: N/D LEL: N/D
Vapor pressure: <1 mm Hg @ 20ºC
Vapor density: N/A
Relative density: 0.94 +/-0.01
Partition coefficient n-octanol/water: N/A
Autoignition Temperature: No data available
Decomposition Temperature: N/A
Viscosity: N/D

10. Stability and Reactivity

Chemical stability: Stable at normal conditions
Possibility of hazardous reactions: Not expected and hazardous polymerization will not occur
Conditions to avoid: Excessive Heat.
Incompatible Materials: None known.
Hazardous decomposition products: Oxides of carbon, nitrogen and phosphorus.

11. Toxicological Information

Inhalation: Inhalation of vapors or mist can be irritating to respiratory passages

Skin: Causes skin irritation

Eyes: Causes eye irritation

Oral: None known

Systemic (other target organ) Effects: None known

Teratology (birth defects): None known

Reproductive Effects: None known

Mutagenicity (effects on genetic material): None known

Carcinogenicity: IARC: NO NTP: No OSHA: No

12. Ecological Information

Persistence and degradability: Data is not available.

13. Disposal Considerations

Disposal methods: P501: Dispose of contents/ container to an approved waste disposal plant
Dispose of in accordance with federal, state and local regulations

Precaution for disposal: All recovered material should be packaged, labeled, transported and disposed or reclaimed in conformance with Good Engineering Practices. Comply with all applicable governmental regulations. Avoid landfilling of liquids. Reclaim where possible.

14. Transport Information

US DOT: Not regulated by the US DOT
RID/ADR: Not regulated by RID/ADR
IMO: Not regulated by IMO
IATA: Not regulated by IATA

15. Regulatory Information

US TSCA: In compliance with the inventory
Canada DSL: In compliance with the inventory
Cal. Prop. 65 This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.
SARA Section 313 This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.
VOC Content (SCAQMD ASTM 1868-10) : <100 g/l concentrate; <10 g/l at maximum recommended dilution of 10%.

16. Other Information

Special Precautions to be Taken in Handling and Storage:

Normal precautions common to good manufacturing practices should be followed in handling and storing. Store away from food. Wash hands before eating, drinking or smoking. Use as directed.

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