



SAFETY DATA SHEET (SDS)

1 - IDENTIFICATION

AMP-95

Chemical family: Amino Alcohol

Recommended use: Chemical

Tower Metalworking Fluids

4300 South Tripp Ave.
Chicago, IL 60632

Information telephone #: (773) 927-6161 (7:30 AM to 4 PM, CST, Monday to Friday)

24 Hr. emergency telephone #: CHEMTREC: (800) 424-9300

2 - HAZARDS IDENTIFICATION

Classification of chemical:

This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).

Flammable liquid: Category 4

Skin irritation: Category 2

Serious eye damage: Category 1

Signal word: DANGER

Hazard Pictogram:



Hazard statement:

H227 Combustible Liquid

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statement:**Prevention**

P210 Keep away from sparks, open flames, hot surfaces. No smoking.
P264 Wash contact area thoroughly after handling.
P280 Wear chemical resistant gloves, goggles and face shield.

Response

P302 + P352 IF ON SKIN: Wash with plenty of water and mild soap.
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: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use water fog, foam, dry chemical or carbon dioxide to extinguish.

Storage

P403+P235 Store in a well-ventilated place. Keep cool.

Disposal

P501 Dispose of contents/containers in accordance with federal, state and local regulations.

3 - COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical name	CAS #	Concentration
2-Amino-2-methyl-1-propanol	124-68-5	90.0 %
2-methylamino-2-methyl-1-propanol	27646-80-6	5.0 %

4 - FIRST-AID MEASURES**Description of first aid measures:**

Inhalation: Move person to fresh air, if adverse health symptoms develop get medical attention.

Ingestion: Seek medical attention immediately. Do not induce vomiting. Neutralize swallowed product with dilute vinegar. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do NOT give anything by mouth unless the person is fully conscious.

Skin: Immediately flush exposed area with plenty of water for at least 15 minutes while removing contaminated clothing. Seek medical attention if adverse health effects develop or persist. Wash clothing before re-use.

Eye: Wash immediately and continuously with plenty of water for at least 30 minutes. Remove contact lenses if present after rinsing for at least 5 minutes. Seek medical attention, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

Symptoms and effects, both acute and delayed:

Acute: Harmful if ingested. Damaging to mucous membranes. Causes serious eye irritation with possibility of irreversible damage, causes serious skin irritation. Mist is irritating to mucous membranes. Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to the eyes and respiratory tract. Primary route of exposure is skin contact.

Chronic: No information available.

5 - FIRE-FIGHTING MEASURES**Extinguishing media:**

Suitable: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred.

Unsuitable: Do not use straight streams of water, as this will spread the fire.

Specific hazards and combustion products: Products may include and are not limited to oxides of carbon, nitrogen and other toxic gases when water content has evaporated and residue is exposed to combustion.

Special protective equipment and precautions for fire-fighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If extensive contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: All persons dealing with the spill should wear appropriate personal protective equipment. Keep others away from spill. Restrict access to area until the spill has been cleaned up. No smoking in area. Ventilate area of leak or spill.

Methods and materials for containment and cleaning up: Contain spill and transfer to suitable containers or soak up in absorbent medium. If spill enters sewer, notify proper authorities.

7 - HANDLING AND STORAGE

Precautions for safe handling: Wear proper personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and flame. Do not get in eyes, on skin, on clothing. Avoid breathing vapor or mist. Do not swallow. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage: Keep containers closed when not in use. Protect from freezing temperatures. Avoid heating above 120°F for prolonged periods of time. Store in a cool, dry place. Store in original container. Keep containers tightly closed when not in use.

Incompatible materials: Strong oxidizing materials.

8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure limits: No exposure standards have been established for this material.

Engineering controls: Good general ventilation should be sufficient for most operations.

Individual protection measures and personal protective equipment: Splash goggles, face shield, chemical resistant gloves. Use impervious apron if skin exposure is likely to be prolonged.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless liquid
Odor: Faint amine
Odor threshold: Data currently unavailable
Product pH: 11.3 (Literature 1% aqueous solution.)
Freezing point: Approximately 32°F
Boiling point: Approximately 212°F
Flash point: 188°F PMCC
Evaporation rate: Information not available.
Flammability: Information not available
Upper/lower flammability limits: Information not available
Vapor pressure: 0.34 mmHg @ 20°C Calculated (anhydrous)
Vapor density: >1 (Air = 1)
Relative density: 0.94 (Water = 1)
Solubility: Completely miscible in water.
Partition coefficient (n-octanol/water): -0.63 Measured
Auto-ignition temperature: Information not available.
Decomposition temperature: Information not available.
Viscosity: Typical 147 cPs @ 25°C

10 - STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid: Strong oxidizing agents.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Material does not decompose at ambient temperatures. Decomposition products depend upon temperature, air supply and the presence of other materials.

11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation: No information available.

Ingestion: LD50, Rat 2,900 mg/kg | LD50, Mouse 2,150 mg/kg

Skin: LD50, Rabbit > 2,000 mg/kg

Eye: Yes

Potential symptoms of exposure:

Inhalation: None

Ingestion: No information available.

Skin: Brief contact may cause severe skin irritation with pain and local redness. Prolonged contact may cause severe skin burns.

Eye: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Toxicological data: No data available.

NTP, IARC or OSHA carcinogen: None of the constituents of this product have been identified as possible or proven carcinogens by NTP, IARC, or OSHA.

12 - ECOLOGICAL INFORMATION

Ecotoxicity: Data not available.

Persistence and degradability: Material is expected to be readily biodegradable.

Bioaccumulative potential: Bioconcentration potential is low.

Mobility in soil: Potential for mobility in soil is very high (Koc between 0 and 50). Partition coefficient(Koc): 18 Estimated.

Other adverse effects: None known.

13 - DISPOSAL CONSIDERATIONS

Waste disposal method: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

14 - TRANSPORT INFORMATION

Proper shipping name: Combustible liquid, n.o.s.(2-Amino-2-methyl-1-propanol)

Identification number: UN 1993

Class / Division: 3

Packing group: III

15 - REGULATORY INFORMATION

Sara III (Superfund Amendment and Reauthorization Act of 1986) 40 CFR Part 372 and 40 CFR Part 355

Sections 302, 304 and 40 CFR Part 355 – Extremely Hazardous Substances:

Component	%	RQ (lbs.)	TPQ (lbs.)	CAS#
NONE	–	–	–	–

Sections 311, 312 and 40 CFR Part 355 – Hazard Categories:

ACCUTE(IMMEDIATE HEALTH HAZARD):	YES	FIRE HAZARD:	NO
CHRONIC (DELATED HEALTH HAZARD):	YES	REACTIVE HAZARD:	NO
SUDDEN PRESSURE RELEASE:	NO		

Sections 313 and 40 CFR Part 372 – Toxic Chemicals:

Component	%	CAS#
NONE	–	–

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

Section 102 and 40 CFR Part 302 – Hazardous Substances:

Component	%	RQ (lbs.)	CAS#
NONE	–	–	–

CLEAN WATER ACT

Under section 311 (b) (4) of this act, contamination of surface waters by petroleum products must be reported immediately to the National Response Center. SECTION 311 (b) (4) DOES NOT APPLY TO AMP-95

California Proposition 65: None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All components of this formula are listed in the TSCA inventory.

16 - OTHER INFORMATION

Preparation Date: June 03, 2015

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