



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Band-Ade®
CAS Number: Mixture
Product Use: Metalworking Fluid
Company Information: Lenox Tools
301 Chestnut Street
East Longmeadow, MA 01028
Emergency Contact: CHEMTREC (U.S. and Canada) 1800-424-9300
CHEMTREC (Outside the U.S.) 1-703-527-0585
Technical Contact: 1-800-642-0010
MSDS Revision Date: March 20th, 2013
MSDS Supersedes Date: July 19th, 2006
MSDS Creation Date: July 15th, 2003

2. Composition / Information on Ingredients (Typical Values)

HAZARDOUS INGREDIENTS	CAS NO.	WT %	ACGIH(TLV)	OSHA(PEL)†	Carcinogen
None	-	-	-	-	No

NE = Not Established

This product is not considered to be a carcinogen by the IARC, ACGIH, NTP, or OSHA

3. Hazard Identification

Emergency Overview: Health injuries are not known or expected under normal use. Product may cause eye or skin irritation with predisposed personnel. Inhalation of vapor or mist may cause irritation. Prolonged or repeated exposure increases the risk.

Potential short term health effects:

Routes of Exposure: Skin, Inhalation, Ingestion
Eyes: Contact with eyes may cause irritation.
Skin: Prolonged and/or repeated skin contact may result in mild irritation or redness.

Inhalation:	Avoid breathing vapors or mists of this product. Product may cause irritation of the respiratory tract.
Ingestion:	No significant adverse effects are expected upon ingestion of the product. Small amounts (a tablespoonful) swallowed during normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.
Target organs:	Not established.
Chronic effects:	Not established.
Main symptoms:	May cause eye/skin irritation. Inhalation of vapors may cause irritation of the respiratory system in very susceptible persons.
Potential environmental effects:	This material is not expected to be harmful to aquatic life. No special environmental safety measures are required.

4. First Aid Measures

General advice:	No hazards which require special first aid measures. In case of contact with substance, wipe from skin immediately; flush skin or eyes with running water for at least 20 minutes. If you feel unwell, seek medical advice (show the label where possible).
First Aid Procedures	
Eye contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
Skin contact:	Wash affected area with mild soap and water.
Inhalation:	Remove to fresh air. No specific treatment is necessary since this material is not likely to be hazardous by inhalation. Call a physician if symptoms develop or persist.
Ingestion:	Drink water as a precaution. No need for first aid is anticipated if material is swallowed. If ingestion of a large amount does occur, seek medical attention.
Notes to physician:	Treat symptomatically.

5. Fire Fighting Measures

Flash Point:	Not Applicable
Extinguishing Media:	Small Fires: Dry chemical, CO ₂ , water spray, regular foam. Large Fires: Water spray, fog, regular foam.
Special Fire	

Fighting Procedures: Fire-fighters should wear appropriate protective equipment and wear approved self-contained breathing apparatus if fumes are present.

Unusual Fire & Explosion Hazards: None known. Not to be used on Magnesium.

6. Accidental Release Measures

Evacuation procedures: Isolate area. Keep unnecessary personnel away. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.

Containment procedures: Stop leak if you can do so without risk. Dike the spilled material, where this is possible.

Personal precautions: Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions: No special environmental precautions required.

Methods for cleaning up: Attempt to reclaim the free product, if this is possible. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Spill or leak procedure: Not established.

7. Handling and Storage

Handling: Keep this product from heat, sparks, or open flame. Do not mix this product with fluids which contain NITRITES/NITRATES. Avoid prolonged or repeated skin contact with this material. Avoid breathing vapors or mists of this product. Wash hands after handling and before eating. Flood lubricant for industrial use only. Store at temperatures between 50 °F and 100 °F. Protect from freezing. If frozen, thaw to room temperature and agitate.

Storage: No special storage conditions required. Use care in handling/storage. Keep container closed when not in use.

Special packaging materials: Not established.

Further information: Not established.

8. Exposure Controls / Personal Protection

Personal protective equipment

Respiratory protection:	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection	Wear appropriate chemical resistant gloves.
Eye protection:	Wear safety glasses with side shields. If splashes are likely to occur, wear: face-shield
Skin and body protection:	Normal work clothing (long sleeved shirts and long pants) is recommended. Wear safety shoes.
General:	Avoid contact with skin and eyes. Wear suitable protective equipment.

Control parameters: Not established.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls: Ventilation in area, safety shower, eyewash area.

Engineering measures

To reduce exposure: Provide adequate ventilation. Ventilation should effectively remove and prevent buildup of any vapor/mist/fume/dust generated from the handling of this product.

9. Physical and Chemical Properties

Form:	Liquid
Color:	Amber
Odor:	Petroleum
Appearance:	Clear to slight haze
Water Solubility:	Forms Emulsion
Boiling Point:	> 200°F
pH @ 5%:	8.8 – 9.5
Specific Gravity:	0.90 – 1.00
Vapor Pressure:	Not Established
VOC's:	Not Established
Vapor Density:	Not Established
Evaporation Rate:	Not Established
Viscosity:	Not Established
Melting Point:	Non Applicable

The above data is typical values and does not constitute as specifications.

10. Chemical Stability and Reactivity Information

Stability:	Stable under normal conditions
Conditions to avoid:	Not determined
Hazardous decomposition products:	Oxides of Carbon and Nitrogen
Hazardous Polymerization:	Will not occur
Incompatibility:	Normally un-reactive but avoid strong oxidizing agents, nitrates, nitrites, and strong acids.

11. Toxicological Information

Acute toxicity:	No data available for this product
Routes of Exposure:	Inhalation, Ingestion, Skin contact, Eye contact
Carcinogenicity:	Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA
Epidemiology:	No data available for this product.
Neurotoxicity:	No data available for this product
Teratogenicity:	No data available for this product
Mutagenicity:	No data available to indicate product or any components present at > 0.1% are mutagenic or genotoxic.
Further information:	This product has no known adverse effect on human health.
Reproductive Toxicity:	No data available to indicate product or any components present at > 0.1% may cause reproductive toxicity.
Chronic Toxicity:	No data available to indicate product or any components present at > 1.0% are chronic health hazards.

12. Ecological Information

Ecotoxicity:	This material is not expected to be harmful to aquatic life.
Environmental effects:	Ecological injuries are not known or expected under normal use. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence / degradability:	Not established.
Bioaccumulation:	Not established.
Aquatic toxicity:	Ecological injuries are not known or expected under normal use.
Partition coefficient:	Not established.

13. Disposal Consideration

Waste Codes:	Waste codes should be assigned by the user based on the application for which the product was used.
Disposal instructions:	This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b) (4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations
Waste from residues / Unused products:	Dispose of in accordance with local regulations.
Contaminated packaging:	Do not re-use empty containers.

14. Transportation Information

U.S. DOT classification:	Not regulated
General:	Not regulated as dangerous goods.
TDG classification:	Not regulated as dangerous goods.
U.S. DOT Bulk:	Not regulated
U.S. DOT Non-Bulk:	Not regulated
ICAO / IATA:	Not regulated

Health	Flammability	Reactivity	PPE
0	0	0	A

15. Regulatory Information

US Federal Regulations

U.S. EPA TSCA Inventory List:	All Components are on the TSCA list
OSHA 29 CFR 1910.1200:	This product is NOT a “Hazardous Chemical” as defined by the OSHA
OSHA 29 CFR 1910.119:	This material is not known to be hazardous by the OSHA highly hazardous process safety standard.
CERCLA/SARA:	No components are listed on the CERCLA/SARA hazardous substance lists.

Inventory Status

Canadian Inventory (DSL):	In Compliance
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Canadian Inventory (NDSL):	In Compliance
U.S.A. and Puerto Rico (TSCA):	In Compliance
China Inventory (CCS):	In Compliance
Europe Inventory (EINECS):	In Compliance
Europe Inventory (ELINCS):	In Compliance

State Regulation

California Prop. 65:	This product does not contain a chemical known to the state of California to cause cancer, birth defects, or other reproductive harm.
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U.S. Massachusetts RTK:
U.S. Pennsylvania RTK:
U.S. Rhode Island RTK:

EPA Regulations

CERCLA 302.4 Lists:
Of Hazardous Substances:

SARA Title III (313):

SARA Title III (311/312):

WHIMIS:

WHMIS Classification:

16. Other Information

While this material is furnished in good faith, no warranty expressed or implied of merchantability fitness or otherwise is made as to the product described above. This material is offered for your consideration and Lenox or U.S. Fluids Inc. including its divisions, affiliates and subsidiaries, shall not in any event be liable for special, incidental or consequential damages in connection with its publication. Likewise, no statement made herein shall be construed as a permission or recommendation for use of any product in a manner that might infringe existing patents. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release. The information contained herein has been developed based upon current available scientific data. New information may be developed from time to time which may render the conclusions of this report obsolete. Therefore, no warranty is extended as to the applicability of this information to the user's intended purpose or for the consequences of its misuse.

For Technical Information
Primary Contact:

LENOX Technical Support
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East Longmeadow, MA 01028
1-800-642-0010