

# SAFETY DATA SHEET

## SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

**Product ID:** 39224  
**Product Name:** Formula 39224  
**Revision Date:** Mar 06, 2020  
**Version:** 2.0  
**Manufacturer's Name:** CHEMSAFE International  
**Address:** One Zenex Circle Cleveland, OH, US, 44146  
**Emergency Phone:** 1-800-535-5053  
**Information Phone Number:** (440)786-7000  
**Fax:**  
**Product/Recommended Uses:** Cutting, Milling, & Saw Coolant for Ferrous and Non-Ferrous Alloys

**Date Printed:** Mar 06, 2020  
**Supersedes Date:** Nov 2, 2016

## SECTION 2) HAZARDS IDENTIFICATION

### Classification

Reproductive Toxicity - Category 1  
Serious Eye Damage - Category 1  
Skin Sensitizer - Category 1

### Pictograms



### Signal Word

Danger

### Hazardous Statements - Health

H360 - May damage fertility or the unborn child  
H318 - Causes serious eye damage  
H317 - May cause an allergic skin reaction

### Precautionary Statements - General

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read label before use.

### Precautionary Statements - Prevention

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves, protective clothing, eye protection and face protection.  
P261 - Avoid breathing mist or vapors.  
P272 - Contaminated work clothing should not be allowed out of the workplace.

### Precautionary Statements - Response

P308 + P313 - IF exposed or concerned: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 - If skin irritation or a rash occurs: Get medical advice.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

### Precautionary Statements - Storage

P405 - Store locked up.

### Precautionary Statements - Disposal

P501 - Dispose of contents and container in accordance with local, regional, national and international regulations.

## SECTION 3) COMPOSITION, INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0000141-43-5	ETHANOLAMINE	1% - 5%
0004719-04-4	S-TRIAZINE-1,3,5(2H,4H,6H)-TRIETHANOL	1% - 3%
0010043-35-3	BORIC ACID	1% - 3%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

## SECTION 4) FIRST-AID MEASURES

### Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. If breathing has stopped, trained personnel should begin rescue breathing or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). If you feel unwell/If concerned: Get medical attention.

### Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician for immediate assistance.

### Skin Contact

Wipe off with a towel. Wash with soap and water. Get medical attention if irritation persists.

### Ingestion

Rinse mouth. Give two glasses of water. If you feel unwell or if concerned: Get medical attention. Do NOT induce vomiting unless under the advice of doctor or POISON CENTER. Note: Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.

### Most Important Symptoms/Effects, Acute and Delayed

No data available.

### Indication of Immediate Medical Attention and Special Treatment Needed

No data available.

## SECTION 5) FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Will not burn. Use extinguishing media suitable for surrounding fire.

### Unsuitable Extinguishing Media

None.

### Fire-Fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## SECTION 6) ACCIDENTAL RELEASE MEASURES

### Emergency Procedure

Do not touch or walk through spilled material. Isolate hazard area and keep unnecessary people away. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

### Recommended Equipment

See section 8 for specifics on protective personal equipment (PPE).

### Personal Precautions

Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

### Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

### Methods and Materials for Containment and Cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

## SECTION 7) HANDLING AND STORAGE

### General

Wash hands after use.  
Do not get in eyes, on skin or on clothing.  
Do not breathe vapors or mists.  
Use good personal hygiene practices.  
Eating, drinking and smoking in work areas is prohibited.  
Remove contaminated clothing and protective equipment before entering eating areas.

### Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

### Storage Room Requirements

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Store at temperatures under 120°F.

FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY. FOR USE BY TRAINED PERSONNEL ONLY. KEEP FROM FREEZING.

## SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

### Eye Protection

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

### Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

### Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.

### Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA Carcinogen	OSHA Skin designation	OSHA Tables (Z1, Z2, Z3)	ACGIH TWA (mg/m3)
BORIC ACID								2 (I)
DIETHANOLA MINE								1 (IFV)
ETHANOLAMINE	6	3					1	
TRIETHANOLA MINE								5

Chemical Name	ACGIH TWA (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)
BORIC ACID		6 (I)		A4	URT irr	A4		
DIETHANOLA MINE				A3	Liver & kidney dam	Skin; A3	15	3
ETHANOLAMINE	3		6		Eye & skin irr		8	3
TRIETHANOLA MINE					Eye & skin irr			

Chemical Name	NIOSH STEL (mg/m3)	NIOSH STEL (ppm)	NIOSH Carcinogen
BORIC ACID			
DIETHANOLA MINE			
ETHANOLAMINE	15	6	
TRIETHANOLA MINE			

(I) - Inhalable fraction, (IFV) - Inhalable fraction and vapor, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, dam - Damage, irr - Irritation, URT - Upper respiratory tract

## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

Density	8.75 lb/gal
Density VOC	0.26 lb/gal
% VOC	3.00%

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Appearance	Clear, blue liquid
Odor Threshold	N.A.
Odor Description	Amine polyol
pH	9.3
Water Solubility	N.A.
Flammability	Will not burn
Flash Point	200+ °F
Viscosity	N.A.
Lower Explosion Level	N.A.
Upper Explosion Level	N.A.
Vapor Pressure	N.A.
Vapor Density	N.A.
Melting Point	N.A.
Freezing Point	N.A.
Low Boiling Point	N.A.
High Boiling Point	N.A.

Decomposition Pt	N.A.
Auto Ignition Temp Evaporation	N.A.
Rate	N.A.
VOC Composite Partial Pressure	N.A.

## SECTION 10) STABILITY AND REACTIVITY

### Stability

The product is stable under normal storage conditions.

### Conditions to Avoid

None.

### Incompatible Materials

None known.

### Hazardous Reactions/Polymerization

Will not occur.

### Hazardous Decomposition Products

None known.

## SECTION 11) TOXICOLOGICAL INFORMATION

### Skin Corrosion/Irritation

No data available.

### Serious Eye Damage/Irritation

Causes serious eye damage.

### Carcinogenicity

No data available.

### Germ Cell Mutagenicity

No data available.

### Reproductive Toxicity

May damage fertility or the unborn child.

### Respiratory/Skin Sensitization

May cause an allergic skin reaction.

### Specific Target Organ Toxicity - Single Exposure

No data available.

### Specific Target Organ Toxicity - Repeated Exposure

No data available.

### Aspiration Hazard

No data available.

### Acute Toxicity

No data available.

### Likely Routes of Exposure

Inhalation, Ingestion, Skin contact, Eye contact.

### Miscellaneous Health Effects

0000141-43-5 ETHANOLAMINE

The substance is corrosive to the respiratory tract, skin and eyes. Corrosive on ingestion. The vapour is irritating to the eyes, skin and respiratory tract. The substance may cause effects on the central nervous system. Exposure could cause lowering of consciousness. Repeated or prolonged contact may cause skin sensitization.

0000102-71-6 TRIETHANOLAMINE

LD50 (oral, rat): 5000-9110 mg/kg (2,8,17,18)

LD50 (oral, mouse): 7400 mg/kg (18)

LD50 (oral, rabbit): 2200 mg/kg (18) (reported but cannot be confirmed)

LD50 (oral, guinea pig): 8000 mg/kg (8,17); 2200 mg/kg (18) (reported but cannot be confirmed)

0000141-43-5 ETHANOLAMINE

LD50 (oral, rat): 1720 mg/kg (10); 2100 mg/kg (3); 2740 mg/kg (3,8)

LD50 (oral, mouse): 700 mg/kg (10)

LD50 (oral, guinea pig): 620 mg/kg (10)

LD50 (oral, rabbit): 1000 mg/kg (10)

LD50 (dermal, rabbit): 1018 mg/kg (cited as 1 mL/kg) (10)

0000111-42-2 DIETHANOLAMINE

LD50 (oral, rat): Values have been reported ranging from 710-3540 mg/kg(1,2,3,4,5)

LD50 (oral, mouse): 3300 mg/kg (1)

LD50 (oral, guinea pig): 2000 mg/kg (1)

LD50 (dermal, rabbit): 12200 mg/kg (unverifiable; this value seems inappropriately high; see skin absorption below) (1)

## SECTION 12) ECOLOGICAL INFORMATION

### Toxicity

No data available.

### Persistence and Degradability

No data available.

### Bio-Accumulative Potential

No data available.

### Mobility in Soil

No data available.

### Other Adverse Effects

No data available.

## SECTION 13) DISPOSAL CONSIDERATIONS

### Waste Disposal

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. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

## SECTION 14) Transport Information

	IATA Information	IMDG Information	U.S. DOT Information
<b>UN number:</b>	Not Regulated	Not Regulated	Not Regulated
<b>Proper shipping name:</b>	N/A	N/A	N/A
<b>Hazard class:</b>	Not Applicable	Not Applicable	Not Applicable
<b>Packaging group:</b>	Not Applicable	Not Applicable	Not Applicable
<b>Hazardous substance (RQ):</b>			No Data Available
<b>Marine Pollutant:</b>		No Data Available	No Data Available
<b>Note / Special Provision:</b>	No Data Available	No Data Available	No Data Available
<b>Toxic-Inhalation Hazard:</b>			No Data Available

## SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0000141-43-5	ETHANOLAMINE	1% - 5%	SARA312,VOC,TSCA,ACGIH,OSHA

0004719-04-4	S-TRIAZINE-1,3,5(2H,4H,6H)- TRIETHANOL	1% - 3%	SARA312,VOC,TSCA
0010043-35-3	BORIC ACID	1% - 3%	SARA312,TSCA,ACGIH

## SECTION 16) OTHER INFORMATION

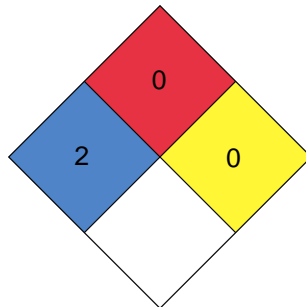
### Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

#### HMIS

Health	1 / 2
FLAMMABILITY	0
Physical Hazard	0
Personal Protection	C

#### NFPA



(\* ) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

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