

Safety Data Sheet

Section 1: Identification

Product code • 10180

Relevant identified uses of the substance or mixture and uses advised against

Recommended use ■ Water dilutable metalworking fluid
Restrictions on use ■ For intended industrial use only

HMIRA Registration No. • 11496

HMIRA Registration Date • 2017-05-23

Details of the supplier of the safety data sheet

Manufacturer ■ Mark V Laboratory

18 Kripes Rd. P.O. Box 370 East Granby, CT 06026

Canada

www.markvlab.com

Telephone (General) • (800) 243-9776

Emergency telephone number • CANUTEC (613) 996-6666 Collect 24 hr

Section 2: Hazard Identification

Classification of the substance or mixture

In accordance with 29 CFR 1910.1200 OSHA HCS 2012, the Canadian Hazardous Products Regulations and WHIMIS 2015

Eye Damage/Eye Irritation Category 1

Skin irritant Category 2

Label elements

Signal word DANGER



Hazard symbol

Hazard statements H318 • Causes serious eye damage

H315 • Causes skin irritation

Precautionary statements

Prevention P280.5 • Wear protective gloves/clothing/eye protection/face protection.

P264 • Wash hands thoroughly after handling.

Response 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 • IF IN EYES: Immediately contact a doctor or medical centre.

P302+P352 • IF ON SKIN: Wash with plenty of water.

P332+P313 • If skin irritation occurs Get medical advice/attention.

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

 Not applicable Storage

P501 • Dispose of contents/container in accordance with local/national regulations Disposal

Hazards not otherwise classified Not applicable Other hazards None known

Section 3: Composition/Information on Ingredients

Substances

Mixture

Mixtures

Hazardous Components

Chemical Name	%(Wt.)	CAS#
Alkanolamine #1	1 - 5	Proprietary
Alkanolamine #2	1 - 5	Proprietary
Alcohol ethoxylate	1 - 4	Proprietary
Triazine	0.5 - 3	4719-04-4
Amine salt #1	2 - 5	Proprietary
Amine salt #2	5 - 8	Proprietary
Amine carboxylate	1 - 4	Proprietary

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

• Move victim to fresh air if adverse effects are observed.

Skin

• IF ON SKIN: Wash skin with soap and water. Remove contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Eye

• IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/attention.

Ingestion

Do NOT induce vomiting. Seek medical attention.

Most important symptoms and effects

Acute

• Direct contact with product concentrate may cause eye damage or skin irritation.

Delayed

• Prolonged/repeated exposure may cause skin irritation or allergic reaction in susceptible individuals.

Indication of any immediate medical attention and special treatment needed

Note to Physician

• All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

• Water based product, should not burn.

Suitable Extinguishing Media

• Regular foam, carbon dioxide, dry chemical.

Unsuitable Extinguishing Media

Avoid the use of streaming water, as this may spread the fire.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion

Product boils and foams excessively when heated above 200°F.

Hazards

Hazardous Combustion Products Special Protective Equipment and Precautions for Firefighters • Smoke, soot, fumes or vapors, oxides of carbon and nitrogen, various hydrocarbons.

 Structural firefighters' protective clothing will only provide limited protection. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Wear positive pressure self-contained breathing apparatus (SCBA). Water spray may be used to cool containers exposed to fire.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

 Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material.

Environmental precautions

Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up

• Recover free liquid for recycle or disposal. Add absorbent to spill area.

Measures

LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

Section7: Handling and Storage

Precautions for safe handling

Handling

Do not mix or store with strong oxidants. Wash hands thoroughly after handling.
 Empty container contains product residue which may exhibit hazards of product.

Conditions for safe storage, including any incompatibilities

Storage

Store in a dry, well ventilated place. Keep container tightly closed when not in use.
 Keep away from open flame and incompatible materials such as strong oxidizers.

Incompatible Materials

• Contains alkanolamine. Do not mix with or add nitrites as this could form nitrosamines, some of which are animal carcinogens.

General Industrial Hygiene

Considerations

Handle in accordance with good industrial hygiene and safety practice.
 Wash thoroughly with soap and water after handling and before eating or drinking. Safety shower and eye wash should be available close to

work station.

Environmental Exposure

Follow best practice for site management and disposal of waste.

Controls

Avoid release to the environment.

Section 8: Exposure Controls/Personal Protection

Exposure Controls

PEL/TLV

Ingredient	OSHA (PEL)	ACGIH (TLV)	Other

Alkanolamine #1 3 mg/M3 6 mg/M3 STEL 15mg/M3

 Use adequate mechanical (general) ventilation or local exhaust as **Engineering**

Measures/Controls to control concentration of airborne contaminants below applicable

exposure

limit values.

Personal Protective Equipment Pictograms





Respiratory • Not necessary under conditions of normal use. In case of insufficient

> wear suitable respiratory equipment if exposure limits are ventilation,

exceeded.

Eye/Face Wear safety goggles.

Hands • Wear protective gloves- neoprene, butyl or nitrile rubber with cuffs. Skin/Body

• Where extensive dermal exposure may be expected, either a chemical

suit or chemical apron will be needed.

Section 9: Physical and Chemical Properties

Information on physical and chemical properties

Clear green liquid **Appearance**

Odor Mild

Odor Threshold Not Determined

10

~ 0°C/32°F **Melting Point/Freezing Point Boiling Point** ~ 100°C/212°F **Flash Point** Non-combustible **Evaporation Rate** Equal to water Flammability (solid, gas) Not Applicable **Flammability Limits** Not Determined

Vapor Pressure Nil Vapor Density (Air=1) >1 Specific Gravity/Relative 1.00

Solubilities Soluble in water Octanol/Water Partition coefficient Not Determined Auto ignition temperature Not Determined **Decomposition temperature** Not Determined Viscosity ~ 40 cSt @ 40°C

Section 10: Stability and Reactivity

Reactivity • No dangerous reaction known under conditions of normal use.

Chemical stability • Stable under normal temperatures and pressures.

Possibility of hazardous reaction Not Determined Conditions to avoid Not Determined

Incompatible materials Do not mix with strong oxidants. **Hazardous decomposition** None known under normal use.

products.

Section 11: Toxicological Information

Information on the likely routes of exposure; symptoms; and acute, delayed and chronic effects

Inhalation • Overexposure to mists or vapors may irritate respiratory tract.

IngestionIngestion of concentrate may cause gastrointestinal irritation.

Eye • Direct contact with concentrate may cause eye damage or irritation, possibly severe,

based on component information.

Skin corrosion/irritation • Prolonged/repeated exposure to concentrate may cause skin irritation or allergic

reaction in some individuals.

Numerical measures of toxicity

Acute toxicity	Not acutely toxic
Skin corrosion/irritation	13% of mixture is a skin irritant Category 2
Serious eye damage/irritation	11% of mixture is an Eye irritant Category 1 and 18% is an eye irritant Category 2
Respiratory or skin sensitization	Not Classified
Germ cell mutagenicity	Not Classified
Carcinogenicity	Not Classified
Reproductive toxicity	Not Classified
STOT-single exposure	Not Classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not Classified

Carcinogenicity • Not listed in NTP, OSHA, or IARC monographs.

Additional Information

 Practical experience has not demonstrated any adverse effects with normal use dilutions of this product.

Section 12: Ecological Information

Toxicity • Not determined.

Persistence and degradability • Not determined.

Bioaccumulative potential • Not determined.

Mobility in Soil • Liquid soluble in water.

Other adverse effects • Not determined.

Section 13: Disposal Considerations

Waste treatment methods

Product waste

- Do not discard into any sewers, on the ground, or any body of water.
- Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
- This product, as manufactured in its present state, is not considered to be a hazardous waste according to 40CFR 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. This product should be recycled if possible, otherwise it should be disposed of in accordance with all applicable federal, state, and local regulations.

Contaminated containers

or packaging

- Contaminated containers should be offered for professional cleaning before reuse.
- Dispose of spent container in accordance with local, regional, national, and/or international regulations.

Section 14: Transport Information

UN Number - Not regulated
UN Proper Shipping Name - Not Applicable
Transport Hazard Class(es) - Not Applicable
Packing Group - Not Applicable
Environmental Hazards - Not Determined
Transport in Bulk - Not Regulated
Special Precautions for user - None Specified

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture Global Chemical Inventories

USA	All components of this material are on the US TSCA Inventory or are exempt.
Other TSCA Reg.	None.
Australia	Not determined.
Canada	All components of this material are on the DSL
China	Not determined.
EU	Not determined.
Japan	Not determined.
Korea	Not determined.
New Zealand	Not determined.
Switzerland	Not determined.

Other U.S. Federal Regulations

SARA Ext. Haz. Subst.

SARA Section 313

- This product does not contain greater than 1.0% of any chemical substance
- on the SARA Extremely Hazardous Substances list.
- This product does not contain greater than 1.0% (> 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

SARA 311 Classifications

Acute Hazard	Yes
Chronic Hazard	No
Fire Hazard	No
Reactivity Hazard	No

CERCLA Hazardous

None known.

Substances

FDA Approval

• Not Applicable.

State Regulations

Cal. Prop. 65

 This product may contain chemicals known by the State of California to cause cancer and/or birth defects. However, we do not routinely analyze products for impurities which may be such chemicals.

Section 16: Other Information

HMIS Ratings

NFPA Ratings

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	В
Health	1
Flammability	0
Reactivity	0

Acronyms/Abbreviations

• NTP- National Toxicology Program Report on Carcinogens (latest edition)

• IARC- International Agency for the Research on Cancer

TSCA- Toxic Substance Control Agency

Revision Date: 01/01/2018
Previous Revision Date: 5/24/2017

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.