

Safety Data Sheet

Section 1: Identification

Product Identifier/Name	▪ CW 16, 32, 128 & 640
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.

- Storage** ▪ Not applicable
- Disposal** P501 ▪ Dispose of contents/container in accordance with local/national regulations
- 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**
 - Smoke, soot, fumes or vapors, oxides of carbon and nitrogen, various hydrocarbons.
- Special Protective Equipment and Precautions for Firefighters**
 - 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.

Section 7: 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 Controls

- Follow best practice for site management and disposal of waste. 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
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- Engineering**
- Use adequate mechanical (general) ventilation or local exhaust as needed
- 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 ventilation, wear suitable respiratory equipment if exposure limits are 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

Appearance	Clear green liquid
Odor	Mild
Odor Threshold	Not Determined
pH	10
Melting Point/Freezing Point	~ 0°C/32°F
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 products.**
- None known under normal use.

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.
- Ingestion**
 - Ingestion 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. ▪ This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

SARA Section 313 ▪ 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

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	B
NFPA Ratings	
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

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