



Master Detailer encourages and expects you to read and understand the entire SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** MERE ILLUMINATION

**PRODUCT CODE:** CC016T

**DISTRIBUTOR:** MASTER DETAILER  
1398 S. Mitchell Avenue  
Chillicothe, MO, 64601

**MANUFACTURER:** Calvary Industries, Inc.  
9233 Seward Road  
Fairfield, Ohio 45014

**APPLICATION:** Acid Cleaner and Scale Remover

**INFORMATION PHONE:** (513) 874-1113  
**EMERGENCY RESPONSE:** (800) 535-5053

**SECTION 2 - HAZARDS IDENTIFICATION**

**GHS Classification:** Physical Corrosive to Metals 1 – H290

Health Eye Irritation 2A – H319  
Reproductive Toxicity 1B – H360

Environmental Not Classified

**Label Elements:** Signal Word **DANGER!**



HMIS RATING	
HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

**Hazard Statements:** H290 May be corrosive to metals.  
H319 Causes serious eye irritation.  
H360 May damage fertility or the unborn child (route of exposure: oral).

## SAFETY DATA SHEET

**PRODUCT NAME: MERE ILLUMINATION**

### **SECTION 2 - HAZARDS IDENTIFICATION (Continued)**

#### **Precautionary Statements:**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P234 Keep only in original container.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves and eye protection.
- P281 Use personal protective equipment as required.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P390 Absorb spillage to prevent material damage.
- P404 Store in a closed container.
- P405 Store locked up.
- P501 Dispose of contents according to Section 13 of this SDS.

### **SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

<u>COMPONENT</u>	<u>CAS NO.</u>	<u>Weight %</u>
Organic Salt	N/A	25-50%

### **SECTION 4 - FIRST AID MEASURES**

**EYES:** Immediately flush eyes with water for 15 minutes. Get medical attention.

**SKIN:** Wash skin with soap and water. Remove contaminated clothing and launder before reuse.

**INHALATION:** Airborne mists of this product are not expected to cause adverse effects to the user. If exposed to excessive levels of mists, remove to fresh air and get medical attention if cough or other symptoms develop.

**INGESTION:** Administer 2 glasses of water or milk, do not induce vomiting. Obtain immediate medical attention. Call a POISON CENTER immediately.

## SAFETY DATA SHEET

**PRODUCT NAME: MERE ILLUMINATION**

### SECTION 5 - FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use an extinguishing agent suitable for the surrounding fire.

**FIRE FIGHTING PROCEDURES:** Wear self contained breathing apparatus with a full face-piece operated in the positive pressure mode and full body protection when fighting fires.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Under fire conditions this product will release explosive hydrogen gas as it comes in contact with metals at elevated temperatures. Thermal decomposition may yield hydrofluoric acid and oxides of carbon and nitrogen in addition to metalloids fluoride gases. Hydrogen cyanide may also be formed during combustion. Hydrogen gas may be released upon contact with certain metals.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear appropriate protective gear described in Section 8 of this safety data sheet.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Dike area to contain spill. Collect and transfer to storage container.

Persons not wearing protective equipment (see section 8) should be excluded from area of spill until clean-up is completed.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with all local, state and federal regulations. Check with local POTW before sewerage material.

### SECTION 7 - HANDLING AND STORAGE

**HANDLING:** ACIDIC PRODUCT CONTAINS FLUORIDE. Avoid contact with eyes. Wash thoroughly after handling. Wear eye protection and impervious gloves. Wash contaminated clothes before reuse.

**STORAGE:** Store at ambient room temperature between 35°F and 120°F. Never store above 120°F.

### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE LIMITS:**

<u>COMPONENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Organic Salt	Proprietary	N/A	N/A

## SAFETY DATA SHEET

**PRODUCT NAME: MERE ILLUMINATION**

### **SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)**

**RESPIRATORY PROTECTION:** Under anticipated operating conditions no respiratory protection should be required. If the TLV is exceeded a NIOSH/MSHA approved respirator for amines and organic vapors should be worn.

**PROTECTIVE CLOTHING:** Waterproof gloves made of neoprene, vinyl, rubber, polyethylene or PVC should be worn if exposure is expected to be prolonged. Safety glasses with side shields or chemical splash goggles should be worn.

**ENGINEERING CONTROLS:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Clear, colorless to pale amber liquid		
ODOR	Mild odor	VAPOUR PRESSURE	No Data
pH	1.0	VAPOUR DENSITY	No Data
FREEZING POINT	32°F	SPECIFIC GRAVITY	1.110
BOILING POINT	>212°F	SOLUBILITY IN WATER	Complete
FLASH POINT	No Data	AUTO-IGNITION TEMP	No Data
EVAPORATION RATE	No Data	VOLATILE ORGANIC COMPOUND (VOC)	0 Lbs/gallon
UPPER/LOWER EXPLOSION LIMITS	No Data	PARTITION COEFFICIENT (n-Octanol/water)	No Data

### **SECTION 10 - STABILITY AND REACTIVITY**

**GENERAL:** This product is stable and hazardous polymerization will not occur.

**INCOMPATIBLE MATERIALS TO AVOID:** Strong oxidizing agents. This material may be extremely hazardous in contact with nitrates or chlorates. Contact with hypochlorites, sulfides or cyanides will liberate toxic gases. This material is acidic, contact with alkaline materials will generate heat.

**CONDITIONS TO AVOID:** Heating above 110°C results in an exothermic decomposition with rapid release of CO<sub>2</sub> gas and potentially hydrofluoric acid.

## SAFETY DATA SHEET

**PRODUCT NAME: MERE ILLUMINATION**

### **SECTION 10 - STABILITY AND REACTIVITY (Continued)**

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may yield hydrofluoric acid, certain metalloid fluorides and oxides of carbon, nitrogen, and metalloids. Hydrogen cyanide may also be formed during combustion. Hydrogen gas may be released upon contact with certain metals, especially aluminum and zinc.

### **SECTION 11 - TOXICOLOGICAL INFORMATION**

**TOXICOLOGICAL INFORMATION:** The components used in this product was found NOT to be mutagenic when tested by the Ames Assay, (OECD Guidelines for Testing of Chemicals, Sec. 471).

This product was found to be corrosive to the eyes when tested using the Modified Draize method.

**ROUTES OF EXPOSURE:** Eyes, Skin, Inhalation, Ingestion.

#### POTENTIAL HEALTH EFFECTS

##### **EYES**

Acute (Immediate): Causes serious eye irritation.

Chronic (Delayed): Expected to be the same as the immediate.

##### **SKIN**

Acute (Immediate): May cause mild skin irritation.

Chronic (Delayed): Prolonged contact may cause redness or irritation.

##### **INHALATION**

Acute (Immediate): Breathing of mist may cause slight irritation to nasal and respiratory system.

Chronic (Delayed): Expected to be the same as the immediate.

##### **INGESTION:**

Acute (Immediate): Product may be harmful if swallowed and is irritating to the mouth, throat and stomach. May damage fertility or the unborn child.

Chronic (Delayed): Expected to be the same as the immediate. Serious effects may be delayed following exposure.

### **SECTION 12 - ECOLOGICAL INFORMATION**

Ecological effects of this product are unknown. This product may be toxic to fish and marine organisms when applied to streams, rivers, ponds, or lakes.

## SAFETY DATA SHEET

**PRODUCT NAME: MERE ILLUMINATION**

### SECTION 13 - DISPOSAL CONSIDERATIONS

As supplied this material is considered an EPA Hazardous waste because the pH is less than 2, classifying it as a D002 waste. If the product were neutralized before disposal, it would not be "hazardous waste". If this product becomes a waste it is the user's responsibility to dispose of the material in accordance with local, state and federal regulations.

### SECTION 14 - TRANSPORT INFORMATION

DOT (Department of Transportation): This product is not regulated as a DOT hazardous material.

### SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): Components used in this product are listed on the TSCA Inventory.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

Section 311/312 Hazard Categories (Acute health, Chronic health, Fire, Reactive or Sudden Release of Pressure: Acute.

Section 313: The following toxic chemical(s) is (are) subject to the reporting requirements of the Emergency Planning and Community Right-to-Know Act of 1986 and 40CFR372.

<u>CHEMICAL NAME</u>	<u>CAS#</u>	<u>WT.%</u>
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NONE

### SECTION 16 - OTHER INFORMATION

Master Detailer urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the date shown. However, no warranty, expressed or implied, is given as to the results of the use of this information or the product to which it relates. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's /user's responsibility to ensure that his activities comply with all federal, state, or local laws. Since conditions for use of this product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Recipient assumes all responsibility for the use (alone or in combination with any other product), storage, or disposal of the product, including any resultant personal injury or property damage.

REVISED DATE: 8/20/19

PREPARER: Z. Magness