Calvary Industries, Inc.

Safety Data Sheet

Calvary Industries, Inc. 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:	**CAL FLOC® 621**
PRODUCT CODE:	CC621
MANUFACTURER:	**Calvary Industries, Inc.** 9233 Seward Road Fairfield, Ohio 45014
APPLICATION:	Water Treatment
INFORMATION PHONE:	(513) 874-1113
EMERGENCY RESPONSE:	(800) 535-5053

SECTION 2 - HAZARDS IDENTIFICATION

GHS Classification:	Physical	Corrosive to metals 1 - H290
	Health	Harmful if Swallowed 4 – H302 Skin Irritation 4 – H312 Eye Irritation 1 – H318 Respiratory Irritation 5 – H333
	Environmental	Not Classified
Label Elements:	Signal Word	**Danger!**





HMIS RATING

HEALTH	2
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	B

Hazard Statements:	H290	May be corrosive to metals.
	H302	Harmful if swallowed.
	H312	Harmful in contact with skin.
	H318	Causes serious eye damage.
	H333	May be harmful if inhaled.

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SECTION 2 - HAZARDS IDENTIFICATION (Continued)

Precautionary Statements:	P234	Keep only in original container.
	P260	Do not breath dust/fume/gas/mist/vapors/spray
	P262	Do not get in eyes, on skin, or on clothing.
	P264	Wash hands thoroughly after handling.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	P280	Wear protective gloves/protective clothing/ eye protection/face protection.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	Weight %
Sodium Hydroxide	01310-73-2	10-30%

SECTION 4 - FIRST AID MEASURES

EYES: Immediately flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Flush skin with soap and water for at least 15 minutes. Remove contaminated clothing and launder before reuse. Remove contaminated shoes promptly and discard if saturated with product. Seek medical attention.

INHALATION: Remove to fresh air. Get medical attention if symptoms develop. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

INGESTION: Do NOT induce vomiting. Give victim 2 glasses of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Product will not burn.

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: Can react with chemically reactive metals such as aluminum, zinc, magnesium, copper, etc to release hydrogen gas which can form explosive mixtures with air.

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SECTION 5 - FIRE FIGHTING MEASURES (Continued)

SPECIFIC HAZARDS: Can react with chemically reactive metals such as aluminum, zinc, magnesium, copper, etc to release hydrogen gas which can form explosive mixtures with air.

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 sewering material.

SECTION 7 - HANDLING AND STORAGE

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

STORAGE: Containers of this material may be hazardous when emptied since emptied containers retain product residues (vapor, liquid, and/or solid). All hazard precautions given in the data sheet must be observed. Do not weld or use cutting torch on empty container.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:

COMPONENT	CAS NO.	OSHA PEL	ACGIH TLV
Sodium Hydroxide	01310-73-2	C2 mg/m^3	C2 mg/m^3

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.

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)

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 Liquid		
ODOR	No odor	VAPOUR PRESSURE	No Data
pH	14	VAPOUR DENSITY	No Data
FREEZING POINT	No Data	SPECIFIC GRAVITY	1.280
BOILING POINT	250°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: Avoid contact with reactive metals such as aluminum, zinc, magnesium, copper; organic materials, strong organic and mineral acids.

CONDITIONS TO AVOID: Temperatures above boiling and contact with incompatible materials

HAZARDOUS DECOMPOSITION PRODUCTS: Contact with aluminum or white metals may release hydrogen gas.

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SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: No specific toxicological information is available for this product.

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

POTENTIAL HEALTH EFFECTS

EYES
Acute (Immediate): Corrosive to eyes and may cause severe burns.
Chronic (Delayed): May cause severe damage or blindness.

SKIN
Acute (Immediate): Causes skin irritation or burns.
Chronic (Delayed): May burn skin, possibly severely.

INHALATION
Acute (Immediate): Breathing of mist may cause slight irritation to nasal and respiratory system.
Chronic (Delayed): No data available.

INGESTION:
Acute (Immediate): May cause severe damage to mouth, throat, and stomach.
Chronic (Delayed): May cause permanent damage to mouth, throat, and stomach.

SECTION 12 - ECOLOGICAL INFORMATION

No specific ecological data is known or reported for this product or its components.

SECTION 13 - DISPOSAL CONSIDERATIONS

If this product becomes a waste, as supplied, it does meet the criteria of a hazardous waste as defined under 40CFR261, in that it exhibits the characteristics of corrosive hazardous waste under Subpart D.

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.

PRODUCT NAME: CAL FLOC® 621

SECTION 14 - TRANSPORT INFORMATION

DOT (Department of Transportation): This product is regulated as a DOT hazardous material.
PROPER SHIPPING NAME: Sodium Hydroxide, Solution
HAZARD CLASS: 8
IDENTIFICATION NUMBER: UN1824
PACKING GROUP: II
LABEL(S) REQUIRED: CORROSIVE
PRODUCT NAME: **CAL FLOC 621**

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 Health Hazard

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.

CHEMICAL NAME	CAS#	WT.%
NONE		

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SECTION 16 - OTHER INFORMATION

Calvary Industries 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: 12/12/19
PREPARER: C. Berger