

Material Safety Data Sheet (MSDS)			
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION			
Trade Name	:	CAUSTIC SODA LYE - 48%	
Manufacture's Name	:	Allied Chemicals	
Address	:	Kebele - 9, Near to Adama Steel, Adama Expressway, Adama ,Oromia	
Office	:	Room No 405, H& M Building, Opposite Hayaulat LRT Station, H/Gebreselassie Road , Addis Ababa, Ethiopia. Email: alliedcls@gmail.com	
Telephone	:	011-6182354	
2. COMPOSITION / INGREDIENTS			
Average Molecular Weight	:	40	
Chemical Identity	:	CAS No.	Weight Range
NaOH	:	1310-73-3	48%
Water	:	7732-18-5	52%
3. HAZARD IDENTIFICATION			
Potential Health Effects	:	Eye: Causes eye burns. May cause blindness. May cause chemical conjunctivitis and corneal damage. Skin: Causes skin burns. May cause deep, penetrating ulcers of the skin. Ingestion: May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. Causes Severe pain, nausea, vomiting, diarrhoea, and shock. Inhalation: Irritation may lead to chemical pneumonitis and pulmonary enema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Causes chemical burns to the respiratory tract. Chronic: Prolonged or repeated skin contact may cause dermatitis. Effects may be delayed.	
Danger	:	Causes eye and skin burns. Causes digestive and respiratory tract burns. Target Organs: Eyes, skin, mucous membranes.	

4. FIRST AID MEASURES		
Eye	:	Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.
Skin	:	For skin contact flush with large amount of water for at least 15 minutes. If irritation persists, get medical attention Immediately. Take off all contaminated clothing and wash contaminated clothing before reuse.
Inhalation	:	If symptoms are experienced, remove source of contamination or move victim to fresh air. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen.
Ingestion	:	If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.
<i>*In all of the above cases, get a doctor to check the affected person.</i>		
5. FIRE HAZARD AND FIRE-FIGHTING MEASURES		
Flash point	:	Not Applicable.
Means of extinction	:	Substance is non-combustible; use agent most appropriate to Extinguish surrounding fire. Do not get water inside containers.
Flammability	:	Non-Flammable.
Flash Point	:	Not Applicable
Personnel	:	Fire fighters should wear full protective clothing, including self-contained breathing equipment.
Hazardous combustion product	:	None
6. ACCIDENTAL RELEASE		
Engineering Controls	:	Ventilation of workplace.
Leak-And-Spill Procedures	:	Ventilate area, sweep up, use protective clothing, store in closed container. Surface will be slippery after spillage.
7. HANDLING AND STORAGE MEASURES		
Handling Containers	:	Protect containers against physical damage / direct sunlight / water/Direct Fire.
Storage Conditions of Containers	:	Use leak-proof Drums. Store in dry locations, at ambient temperature away from direct sunlight. If stored in storage tank, tank should be either SS316 or SS316L with higher Nickel content. Storage Temp. should not be more than 40 Deg C.

8. PERSONAL PROTECTION MEASURES		
Skin	:	Rubber Gloves
Respiration	:	Air respirator
Eyes	:	Goggles
Feet	:	Safety Shoes/Gum Boots.
Body	:	Aprons.
Hygiene precautions	:	Remove contaminated clothing and wash hands.
9. PHYSICAL AND CHEMICAL PROPERTIES		
Physical state	:	Pourable Liquid.
Moisture & Volatiles %	:	52%
Specific gravity	:	1.50
Boiling point	:	-
Pour point	:	-
Solubility in water.	:	Soluble
10. REACTIVITY DATA		
Chemical Stability	:	Product is stable under the prescribed storage conditions.
Incompatibility with other Substances	:	Water, metals, acids, aluminium, zinc, tin, nitro methane, leather, flammable liquids, organic halogens, wool.
Reactivity and under what conditions	:	Moisture, contact with water, exposure to moist air or water, prolonged exposure to air.
Hazardous Decomposition	:	Toxic fumes of sodium oxide.
11. TOXICOLOGICAL PROPERTIES		
Toxicity	:	Non toxic
Skin contact	:	Slight
Inhalation acute	:	None
Skin absorption	:	None
Inhalation Chronic	:	None
Eye contact	:	Slight. Concentrated solutions can cause severe corrosive injury unless washed out immediately.
Ingestion	:	NA
Irritancy of material	:	Slight
Carcinogenicity, Reproductive Effects, Teratogenicity, Mutagenicity	:	None reported
12. ECOLOGICAL INFORMATION		
No information available.		
13. WASTE DISPOSAL		

Leak-and-spill procedures	:	Being a liquid, it can be collected, cleaned up and stored in closed containers.
Disposal	:	This material is not hazardous material can be washed off with water jet, ensuring contaminated water does not enter sewerages.
14. TRANSPORT RECOMMENDATION		
No special condition as it is not a regulated product. However, one should observe the usual precautionary measures for transporting chemicals.		
15. REGULATORY REQUIREMENTS		
According to the data available, the product is not regulated product. However, one should observe prescribed Federal, State and Local measures while dealing with chemicals.		
16. OTHER INFORMATION		
The information presented here pertains only to the product when stored in a condition, as prescribed above. The information is given in good faith, but no warranty, express or implied, is made.		