The following list contains the Material Safety Data Sheets you requested. Please scoll down to view the requested MSDS(s).

Product	MSDS	Distributor	Format	Language	Quantity
39532	N/A	Hach Company	ROWGHS	English	1

Total Enclosures: 1

World Headquarters
Hach Company
P.O.Box 389
Loveland, CO USA 80539
(970) 669-3050

MSDS No: M00640

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Soap Solution for Hardness Determination
Catalog Number: 39532

Hach Company
P.O.Box 389
Loveland, CO USA 80539
(970) 669-3050

Emergency Telephone Numbers:
(Medical and Transportation)
(303) 623-5716 24 Hour Service
(515)232-2533 8am - 4pm CST

MSDS Number: M00640
Chemical Name: Not applicable
CAS Number: Not applicable
Additional CAS No. (for hydrated forms): Not applicable
Chemical Formula: Not applicable
Chemical Family: Not applicable
Intended Use: Laboratory Reagent Hardness determination

2. HAZARDS IDENTIFICATION

GHS Classification:
Hazard categories: Flammable Liquids: Flam. Liq. 2 Corrosive to Metals: Met. Corr. 1 . Skin Corrosion/Irritation: Skin Corr. 1A
GHS Label Elements:
DANGER

Hazard statements: . Highly flammable liquid and vapour. May be corrosive to metals. Causes severe skin burns and eye damage.
Precautionary statements: Keep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection. In case of fire: Use dry sand, extinquishing powder, foam or water for extinction. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P406+P233 Store in corrosive resistant container with a resistant inner liner. Keep container tightly closed. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wear eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. IF INHALED: Remove victim/person to fresh air and keep at rest in a position comfortable for breathing. Wash contaminated clothing before reuse. In case of fire: Use dry sand or extinguishing powder for extinction. Absorb spillage to prevent material damage. Dispose of contents/container according to state, local, federal or national regulations.

HMIS:
Health: 3
Flammability: 4
Reactivity: 1
Protective Equipment: X - See protective equipment, Section 8.

NFPA:
Health: 3
Flammability: 4

Reactivity: 1
Symbol: Not applicable
WHMIS Hazard Classification: Class B, Division 2 - Flammable liquids Class E - Corrosive material Class D, Division 1, Subdivision B - Toxic material (immediate effects)
WHMIS Symbols: Acute Poison Flammable / Combustible Corrosive

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components according to GHS:

Propylene Glycol

CAS Number: 57-55-6
Chemical Formula: $C_3H_8O_2$
GHS Classification:
Percent Range (Trade Secret): 15.0 - 25.0
Percent Range Units: volume / volume
PEL: Not established
TLV: Not established

WHMIS Symbols: Not applicable

Isopropanol

CAS Number: 67-63-0
Chemical Formula: C_3H_8O
GHS Classification:
Percent Range (Trade Secret): 15.0 - 25.0
Percent Range Units: volume / volume
PEL: 400 ppm (980 mg/m^3)
TLV: 200 ppm (492 mg/m^3)

WHMIS Symbols: Flammable / CombustibleOther Toxic Effects

Linseed Oil, Raw

CAS Number: 8001-26-1
Chemical Formula: Not applicable
GHS Classification: Skin Irrit. 2, H315; Eye Irrit. 2, H319;
Percent Range (Trade Secret): 15.0 - 25.0
Percent Range Units: volume / volume
PEL: Not established
TLV: Not established

WHMIS Symbols: Other Toxic Effects

Potassium Hydroxide

CAS Number: 1310-58-3
Chemical Formula: KOH
GHS Classification: Acute Tox. 4 - Orl, H302; Skin Corr. 1A, H314; Met Corr. 1, H290; Aquatic Acute 3, H402
Percent Range (Trade Secret): 10.0 - 20.0
Percent Range Units: weight / volume
PEL: 15 mg/m^3 as inhalable dust; 5 mg/m^3 as respirable dust
TLV: 10 mg/m^3 as inhalable dust; 3 mg/m^3 as respirable dust

WHMIS Symbols: CorrosiveAcute Poison

EDTA Tetrasodium Salt

CAS Number: 64-02-8
Chemical Formula: $C_{10}H_{12}N_2Na_4O_8\ 2H_2O$
GHS Classification: Acute Tox. 4-Orl, H302; Eye Dam. 1, H318
Percent Range (Trade Secret): 1.0 - 5.0
Percent Range Units: weight / volume
PEL: 15 mg/m^3 as total dust; 5 mg/m^3 as respirable dust
TLV: 10 mg/m^3 as inhalable dust; 3 mg/m^3 as respirable dust

WHMIS Symbols: Other Toxic Effects

Hazardous Components according to GHS: No

Demineralized Water

CAS Number: 7732-18-5
Chemical Formula: H_2O
GHS Classification: Not a dangerous substance according to GHS.
Percent Range (Trade Secret): 30.0 - 40.0
Percent Range Units: volume / volume
PEL: Not established
TLV: Not established

WHMIS Symbols: Not applicable

4. FIRST AID MEASURES

General Information: In the event of exposure, show this Material Safety Data Sheet and label (where possible) to a doctor.
Advice to doctor: Treat symptomatically.
Eye Contact: Immediately flush eyes with water for 15 minutes. Call physician.
Skin Contact (First Aid): Wash skin with plenty of water for 15 minutes. Remove contaminated clothing. Call physician immediately.
Inhalation: Remove to fresh air. Give artificial respiration if necessary. Call physician.
Ingestion (First Aid): Do not induce vomiting. Give 1-2 glasses of water. Call physician immediately. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flammable Properties: Flammable Liquid
Fire Fighting Instruction: As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear. Containers can build up pressure if exposed to heat.
Extinguishing Media: Water. Carbon dioxide Dry chemical. Alcohol foam.
Extinguishing Media NOT To Be Used: Not applicable
Fire / Explosion Hazards: Flammable Liquid Do not expose to flames. Do not expose to sparks or other ignition sources.
Hazardous Combustion Products: Toxic fumes of: carbon monoxide, carbon dioxide. potassium oxides

6. ACCIDENTAL RELEASE MEASURES

Spill Response Notice:
Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.
Containment Technique: Releases of this material may contaminate the environment. Remove all combustible material from spill area. Remove all ignition and spark-creating sources from the spill area. Cover spilled liquid with a commercially available flammable liquid sorbent such as vapor barrier blanket or activated carbon to avoid evolution of fumes. Vapors may travel to a source of ignition and flash back. May be ignited by: heat, sparks, or flames. Material will float on water creating a fire hazard. Dike the material to create a barrier to combustibles. Dike large spills to keep spilled material from entering sewage and drainage systems or bodies of water.
Clean-up Technique: Eliminate all sources of ignition. Do not breathe the fumes. Use only non-sparking tools. Cover spilled material with an alkali, such as soda ash or sodium bicarbonate. Scoop up slurry into a large beaker. Incinerate material at a government approved hazardous waste facility. Decontaminate the area of the spill with a weak acid solution.
Evacuation Procedure: Evacuate general area (50 foot radius or as directed by your facility's emergency response plan) when: any quantity is spilled. If conditions warrant, increase the size of the evacuation.
DOT Emergency Response Guide Number: 29

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes skin clothing Do not breathe mist or vapors. Wash thoroughly after handling. Use with adequate ventilation. Maintain general industrial hygiene practices when using this product.
Storage: Keep away from: sparks, flames and other ignition sources oxidizers Protect from: heat
Flammability Class: Class IB

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use a fume hood to avoid exposure to dust, mist or vapor. Maintain general industrial hygiene practices when using this product.
Personal Protective Equipment:
Eye Protection: chemical splash goggles
Skin Protection: disposable latex gloves In the EU, the selected gloves must satisfy the specifications of EU Directive 89/686/EEC and standard EN 374 derived from it. lab coat
Inhalation Protection: laboratory fume hood
Precautionary Measures: Avoid contact with: eyes skin clothing Do not breathe: mist/vapor Wash thoroughly after handling. Keep away from: sparks, flames and other ignition sources oxidizers Protect from: heat
TLV: Not established
PEL: Not established
For Occupational Exposure Limits (OEL) for ingredients, see section 3 - Composition/Information on Ingredients.:

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, brown liquid
Physical State: Liquid
Molecular Weight: Not applicable
Odor: Alcoholic
Odor Threshold: Not determined
pH: 13.6
Metal Corrosivity:
Corrosivity Classification: Classified as corrosive to metals.
Steel: Not determined
Aluminum: 14.997 in/yr
Specific Gravity/ Relative Density (water = 1; air =1): 1.076
Viscosity: Not determined
Solubility:
Water: Soluble
Acid: Soluble
Other: Not determined
Partition Coefficient (n-octanol / water): Not applicable
Coefficient of Water / Oil: Not applicable
Melting Point: Not determined
Decomposition Temperature: Not determined
Boiling Point: 89° C (192° F)
Vapor Pressure: Not determined
Vapor Density (air = 1): Not determined
Evaporation Rate (water = 1): 1.55
Volatile Organic Compounds Content: Not determined
Flammable Properties: Flammable Liquid
Flash Point: 15° C (59° F)
Method: Closed cup
Flammability Limits:
Lower Explosion Limits: Not determined
Upper Explosion Limits: Not determined
Autoignition Temperature: Not determined
Explosive Properties:
Not classified according to GHS criteria.
Oxidizing Properties:
Not classified according to GHS criteria.
Reactivity Properties:
Not classifed as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria.

Gas under Pressure:
Not classified according to GHS criteria.
Not determined

10. STABILITY AND REACTIVITY

Chemical Stability: Stable when stored under proper conditions.
Mechanical Impact: None reported
Static Discharge: None reported.
Reactivity / Incompatibility: May react violently in contact with: oxidizers Incompatible with: oleum cobalt chloride potassium-tert-butoxide aluminum
Hazardous Decomposition: Heating to decomposition releases: carbon dioxide carbon monoxide
Conditions to Avoid: Contact with heat, sparks, open flames or other ignition sources.

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, Metabolism and Distribution: No information available for mixture.
Toxicologically Synergistic Products: None reported
Acute Toxicity: Acute Toxicity Estimate (ATE) - Calculated from Ingredient Toxicity Data
ATE Oral Rat LD50 = 2457 mg/kg
Specific Target Organ Toxicity - Single Exposure (STOT-SE): Target Organs Central nervous system
Specific Target Organ Toxicity - Repeat Exposure (STOT-RE): Based on classification principles, the classification criteria are not met.
Skin Corrosion/Irritation: Corrosive to skin.
Eye Damage: Corrosive to eyes.
Sensitization: Based on classification principles, the classification criteria are not met.
CMR Effects/Properties (carcinogenic, mutagenic or toxic to reproduction): No germ cell mutagenicity, carcinogenicity or reproductive toxicity data found.
This product does NOT contain any NTP listed chemicals.
This product does NOT contain any OSHA listed carcinogens.
Symptoms/Effects:
Ingestion: Causes: severe burns dizziness incoordination giddiness depression headache abdominal pain nausea vomiting diarrhea blood pressure problems rapid pulse and respirations respiratory arrest coma death
Inhalation: Causes: severe burns dizziness incoordination giddiness depression headache blood pressure changes rapid pulse and respirations
Skin Absorption: None Reported
Chronic Effects: None reported
Medical Conditions Aggravated: Pre-existing: Eye conditions Skin conditions Respiratory conditions

12. ECOLOGICAL INFORMATION

Product Ecological Information: --
No ecological data available for this product. Mobility in soil: No data available
Ingredient Ecological Information: --
No ecological data available for the ingredients of this product.
CEPA Statement: Isopropanol, Potassium Hydroxide: Persistent, not bioaccumulative or inherently toxic to aquatic organisms; Sequestrene NA4, Propylene Glycol: Not persistent, not bioaccumulative or inherently toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

EPA Waste ID Number: D001 D002
Special Instructions (Disposal): Incinerate material at an E.P.A. approved hazardous waste facility.
Empty Containers: Rinse three times with an appropriate solvent. Dispose of empty container as normal trash.
NOTICE (Disposal): These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information. In Europe: Chemical and analysis solutions must be disposed of in compliance with the respective national regulations. Product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

14. TRANSPORT INFORMATION

D.O.T.:

D.O.T. Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S.
(Isopropanol/Potassium Hydroxide Solution)
Hazard Class: 3
Subsidiary Risk: 8
ID Number: UN2924
Packing Group: II

T.D.G.:

Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S.
(Isopropanol/Potassium Hydroxide Solution)
Hazard Class: 3
Subsidiary Risk: 8
UN Number/PIN: 2924
Packing Group: II

I.C.A.O.:

I.C.A.O. Proper Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.
(Isopropanol/Potassium Hydroxide Solution)
Hazard Class: 3
Subsidiary Risk: 8
ID Number: UN2924
Packing Group: II

I.M.O.:

Proper Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.
(Isopropanol/Potassium Hydroxide Solution)
Hazard Class: 3
Subsidiary Risk: 8
ID Number: UN2924
Packing Group: II
Marine Pollutant: No

Additional Information: There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is NOT in a set or kit, the classification given above applies. If the item IS part of a set or kit, the classification would change to the following: UN3316 Chemical Kit, Class 9, PG II or III. If the item is not regulated, the Chemical Kit classification does not apply.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

O.S.H.A.: This product meets the criteria for a hazardous substance as defined in the Hazard Communication Standard. (29 CFR 1910.1200)

E.P.A.:

S.A.R.A. Title III Section 311/312 Categorization (40 CFR 370): Immediate (Acute) Health Hazard Fire Hazard
S.A.R.A. Title III Section 313 (40 CFR 372): This product does NOT contain any chemical subject to the reporting requirements of Section 313 of Title III of SARA.
--
302 (EHS) TPQ (40 CFR 355): Not applicable
304 CERCLA RQ (40 CFR 302.4): Potassium hydroxide 1000 lbs.
304 EHS RQ (40 CFR 355): Not applicable
Clean Water Act (40 CFR 116.4): Potassium hydroxide - RQ 1000 lbs.
RCRA: Contains RCRA regulated substances. See Section 13, EPA Waste ID Number.

State Regulations:

California Prop. 65: No Prop. 65 listed chemicals are present in this product.
Identification of Prop. 65 Ingredient(s): Not applicable
California Perchlorate Rule CCR Title 22 Chap 33: Not applicable
Trade Secret Registry: Not applicable

National Inventories:

U.S. Inventory Status: All ingredients in this product are listed on the TSCA 8(b) Inventory (40 CFR 710).
CAS Number: Not applicable
Canadian Inventory Status: All ingredients of this product are DSL Listed.
EEC Inventory Status: All ingredients used to make this product are listed on EINECS / ELINCS.
Australian Inventory (AICS) Status: All ingredients are listed.
New Zealand Inventory (NZIoC) Status: All components either listed or exempt.

Korean Inventory (KECI) Status: All components of this product are either listed, listed as the anhydrous compound or exempt.
Japan (ENCS) Inventory Status: All components either listed or exempt.
China (PRC) Inventory (MEP) Status: All components either listed or exempt.

16. OTHER INFORMATION

References: Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992. Technical Judgment. In-house information.
Complete Text of H phrases referred to in Section 3: H225 Highly flammable liquid and vapour. H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H336 May cause drowsiness or dizziness.
Revision Summary: Substantial revision to comply with EU Reg 1272/2008, Reg 1907/2006 and UN GHS (ST/SG/AC.10/36/Add.3).
Date of MSDS Preparation:
Day: 30
Month: January
Year: 2015
MSDS Prepared: MSDS prepared by Product Compliance Department extension 3350
CCOHS Evaluation Note: It is offered under exemption from WHMIS labeling as specified in the Controlled Products Regulation (CPR) Section 17. It is offered under the interim policy that was established by Health Canada permitting use of GHS-formatted safety data sheets in Canada prior to revision of CPR to GHS. This product has been classified and labeled in accordance with the requirements of GHS (ST/SG/AC.10/36/Add.3). Not determined

Legend:

NA - Not Applicable	w/w - weight/weight
ND - Not Determined	w/v - weight/volume
NV - Not Available	v/v - volume/volume

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.