Safety Data Sheet

pHUp®

SDS (formerly MSDS)

Conforms to HCS 2012 - United States

Date: 2024

UN1814

ADR 8

Dutch Direct®

Section 1. Identification

GHS product identifier:	PH UP LIQUID	**Product type:**	Liquid.
Other means of identification:	Not available.		

Relevant identified uses of the substance or mixture and uses advised against:	
Identified uses:	Not available.
Supplier's details:	18 North 57th Drive Ste #1 Phoenix Az 85043 United States Tel: +1 (844) 388-2434 info@dutchdirect.us
Emergency telephone number (with hours of operation):	CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887 24/7

Section 2. Hazards identification

OSHA/HCS status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Classification of the substance or mixture:	SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1.
GHS Label Elements:	
Hazard pictograms:	
Signal word:	Danger.
Hazard statements:	H314 - Causes severe skin burns and eye damage.
Precautionary Statements:	
Prevention:	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
	P264 - Wash hands thoroughly after handling.

Response:	**P304 + P340 + P310 - IF INHALED:**	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.
	P301 + P310 + P330 + P331 - IF SWALLOWED:	Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.
	P303 + P361 + P353 + P363 + P310 - IF ON SKIN (or hair):	Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.
	P305 + P351 + P338 + P310 - IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER or physician.
Storage:	P405 - Store locked up.	
Disposal:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Hazards not otherwise classified:	None known.	

Section 3. Composition/information on ingredients

Substance/mixture:	Mixture.
Other means of identification:	Not available.
CAS number/other identifiers:	
CAS number:	Not applicable.
Product code:	Not available.

INGREDIENT NAME	PERCENT	CAS NUMBER
Potassium hydroxide.	30%	

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in **Section 8.**

Section 4. First aid measures

Description of necessary first aid measures:		
Eye contact:	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.	
Inhalation:	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.	
Skin contact:	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion:	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person.	
Most important symptoms/effects, acute and delayed:		
Potential acute health effects:	**Eye contact:**	Causes serious eye damage.
	Inhalation:	No known significant effects or critical hazards.
	Skin contact:	Causes severe burns.
	Ingestion:	No known significant effects or critical hazards.
Over-exposure signs/ symptoms:	**Eye contact:**	Adverse symptoms may include the following: pain, watering, redness.
	Inhalation:	No known significant effects or critical hazards.
	Skin contact:	Adverse symptoms may include the following: pain or irritation, redness, blistering may occur.
	Ingestion:	Adverse symptoms may include the following: stomach pains.

Indication of immediate medical attention and special treatment needed, if necessary:	
Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments:	No specific treatment.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
See toxicological information (Section 11)	

Section 5. Fire-fighting measures

Hazardous thermal decomposition products:	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, metal oxide/oxides.
Special protective actions for fire-fighters:	No special precaution is required.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	
For non-emergency personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up:
Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling:	
Protective measures:	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials **(see Section 10)** and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits:

INGREDIENT NAME	EXPOSURE LIMITS
Potassium hydroxide.	None.

Appropriate engineering controls:	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
Individual protection measures:	
Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection:	
Hand protection:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance:			
Physical state:	Liquid.	**Lower and upper explosive (flammable) limits:**	Not available.
Color:	Blue.	**Vapor pressure:**	Not available.
Odor:	Odorless.	**Vapor density:**	Not available.
Odor threshold:	Not available.	**Relative density:**	1.09
pH:	11.5 to 11.9	**Solubility:**	Soluble in water.
Melting point:	0°C (32°F)	**Partition coefficient: noctanol/water:**	Not available.
Boiling point:	100°C (212°F)	**Auto-ignition temperature:**	Not available.
Flash point:	Not available.	**Decomposition temperature:**	Not available.
Evaporation rate:	Not available.	**Viscosity:**	Not available.
Flammability (solid, gas):	Not available.		

Section 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data.
Incompatible materials:	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects:

	PRODUCT NAME	RESULT	SPECIES	DOSE	EXPOSURE
Acute toxicity:	Potassium hydroxide.	LD50 Oral.	Rat.	1870 mg/kg	-

Irritation/Corrosion:	There is no data available.			
Sensitization:	There is no data available.			
Mutagenicity:	There is no data available.			
Carcinogenicity:	There is no data available.			
Reproductive toxicity:	There is no data available.			
Teratogenicity:	There is no data available.			
Specific target organ toxicity (single exposure):	**NAME**	**CATEGORY**	**ROUTE OF EXPOSURE**	**TARGET ORGANS**
	Potassium hydroxide.	Category 3.	Not applicable.	Respiratory tract irritation.
Specific target organ toxicity (repeated exposure):	There is no data available.			
Aspiration hazard:	There is no data available.			

Information on the likely routes of exposur:				
Dermal contact, Eye contact, Inhalation, Ingestion.				
Potential acute health effects:	**Eye contact:**	**Inhalation:**	**Skin contact:**	**Ingestion:**
	Causes serious eye damage.	No known significant effects or critical hazards.	Causes severe burns.	No known significant effects or critical hazards.
Symptoms related to the physical, chemical and toxicological characteristics:	**Eye contact:**	**Inhalation:**	**Skin contact:**	**Ingestion:**
	Adverse symptoms may include the following: pain, watering, redness.	No known significant effects or critical hazards.	Adverse symptoms may include the following: pain or irritation, redness, blistering may occur.	Adverse symptoms may include the following: stomach pains.
Delayed and immediate effects and also chronic effects from short and long term exposure:	**Short term exposure:**	**Potential immediate effects:**	No known significant effects or critical hazards.	
		Potential delayed effects:	No known significant effects or critical hazards.	

Delayed and immediate effects and also chronic effects from short and long term exposure:	**Long term exposure:**	**Potential immediate effects:**	No known significant effects or critical hazards.
		Potential delayed effects:	No known significant effects or critical hazards.
	Potential chronic health effects:	**General:**	No known significant effects or critical hazards.
		Carcinogenicity:	No known significant effects or critical hazards.
		Mutagenicity:	No known significant effects or critical hazards.
		Teratogenicity:	No known significant effects or critical hazards.
		Developmental effects:	No known significant effects or critical hazards.
		Fertility effects:	No known significant effects or critical hazards.

Numerical measures of toxicity:

Acute toxicity estimates.

ROUTE	ATE VALUE
Oral.	16892.5 mg/kg

Section 12. Ecological information

Toxicity:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	EXPOSURE
Potassium hydroxide.	Acute LC50 630000 µg/L Fresh water. Acute LC50 650000 µg/L Fresh water.	Crustaceans - Ceriodaphnia dubia. Daphnia - Daphnia magna.	48 hours. 48 hours.

Persistence and degradability:	There is no data available.
Bioaccumulative potential:	There is no data available.

Mobility in soil:	
Soil/water partition coefficient (K_{OC}):	There is no data available.
Other adverse effects:	No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT CLASSIFICATION	IMDG	IATA
UN NUMBER	UN1814	UN1814	UN1814
UN PROPER SHIPPING NAME	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium silicate, anhydrous)	ORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium silicate, anhydrous)	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium silicate, anhydrous)
TRANSPORT HAZARD CLASS(ES)	8 	8 	8 
PACKING GROUP	III	III	III
ENVIRONMENTAL HAZARDS	No.	No.	No.
ADDITIONAL INFORMATION	-	Emergency schedules (EmS) F-A, S-B	-

AERG: 154

Special precautions for user:	
Transport within user's premises:	Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

U.S. Federal regulations:	**TSCA 8(a) CDR Exempt/Partial exemption:**	Not determined.
	United States inventory (TSCA 8b):	All components are listed or exempted.
	Clean Water Act (CWA) 311:	Edetic Acid.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs):	Not listed.	
Clean Air Act Section 602 Class I Substances:	Not listed.	
Clean Air Act Section 602 Class II Substances:	Not listed.	
DEA List I Chemicals (Precursor Chemicals):	Not listed.	
DEA List II Chemicals (Essential Chemicals):	Not listed.	

SARA 302/304:

Composition/information on ingredients:	**SARA 304 RQ:**
No products were found.	Not applicable.

SARA 311/312:

Classification:	Immediate (acute) health hazard.

Composition/information on ingredients:

NAME	PERCENT	FIRE HAZARD	SUDDEN RELEASE OF PRESSURE	REACTIVE	IMMEDIATE (ACUTE) HEALTH HAZARD	DELAYED (CHRONIC) HEALTH HAZARD
Potassium hydroxide.	≥10 - <20	No.	No.	No.	Yes.	No.

SARA 313:		
Classification:	Immediate (acute) health hazard.	

State regulations:	**Massachusetts:**	None of the components are listed.
	New York:	None of the components are listed.
	New Jersey:	None of the components are listed.
	Pennsylvania:	None of the components are listed.
California Prop. 65:	No products were found.	

Section 16. Other information

Procedure used to derive the classification:

CLASSIFICATION	**JUSTIFICATION**
SKIN CORROSION - Category 1.	On basis of test data.
SERIOUS EYE DAMAGE - Category 1.	On basis of test data.

History:	
Date of issue mm/dd/yyyy:	03/01/2017
Date of previous issue:	02/15/2017
Version:	5.1
Prepared by:	KMK Regulatory Services Inc.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

FORMULA 1 SUPPLEMENTS

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