

Version 0.0	Revision Date: 09/18/2018		DS Number: 00000001541	Date of last issue: 09/13/2018 Date of first issue: 09/13/2018
SECTION	1. IDENTIFICATION			
Produ	uct name	:	KLEAN WALL	
Manufacturer or supplier's o			ails	
Company name of supplier Address Email Address Telephone Emergency telephone num- ber		:	Dallas TX 75225 EHS@niteoprodu 1-844-696-4836	icts.com
Reco	mmended use of the c	hen	nical and restriction	ons on use
	mmended use ictions on use	:	CLEANER Use only outdoor	s or in a well-ventilated area.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Corrosive to metals	:	Category 1
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Acute toxicity (Dermal)	:	Category 2
Skin corrosion	:	Category 1A
Serious eye damage	:	Category 1
Skin sensitisation	:	Category 1
Carcinogenicity	:	Category 1A
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Bone, Skeleton)
GHS label elements		

:

: Danger

GHS label elements	
Hazard pictograms	

•	•	•	•

Signal word

Hazard statements

May be corrosive to metals.
 Harmful if swallowed or if inhaled.
 Fatal in contact with skin.
 Causes severe skin burns and eye damage.
 May cause an allergic skin reaction.



ersion D	Revision Date: 09/18/2018	SDS Number: 600000001541	Date of last issue: 09/13/2018 Date of first issue: 09/13/2018
			cer. nage to organs (Bone, Skeleton) through pro- ated exposure if swallowed.
Preca	utionary statements	Prevention:	
		Do not handle understood. Keep only in or Do not breathe Do not get in e Wash skin thor Do not eat, drir Use only outdo Contaminated workplace.	instructions before use. until all safety precautions have been read and iginal container. dust/ fume/ gas/ mist/ vapours/ spray. yes, on skin, or on clothing. oughly after handling. k or smoke when using this product. ors or in a well-ventilated area. work clothing should not be allowed out of the e gloves/ protective clothing/ eye protection/ fac
		Response:	
		unwell. Rinse n IF SWALLOWE IF ON SKIN: G diately call a Po IF ON SKIN (or clothing. Rinse IF INHALED: R for breathing. In IF IN EYES: Ri Remove contac rinsing. Immed IF exposed or o If skin irritation Take off contar	ED: Call a POISON CENTER/doctor if you feel nouth. ED: Rinse mouth. Do NOT induce vomiting. ently wash with plenty of soap and water. Imme DISON CENTER or doctor/ physician. hair): Take off immediately all contaminated skin with water/shower. emove person to fresh air and keep comfortab mmediately call a POISON CENTER/doctor. nse cautiously with water for several minutes. ct lenses, if present and easy to do. Continue iately call a POISON CENTER/doctor. concerned: Get medical advice/ attention. or rash occurs: Get medical advice/ attention. minated clothing and wash before reuse. e to prevent material damage.
		Storage: Store locked up Store in corrosi	o. Ive resistant container with a resistant inner line
		Disposal:	
		•	tents/ container to an approved waste disposal
Other	hazards		
None I	known.		

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Sulfuric acid	7664-93-9	>= 10 - < 20



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	phoric acid		64-38-2	>= 5 - < 10
Hydrofluoric acid		766	64-39-3	>= 2.5 - <= 5
Sulfamic acid		532	9-14-6	>= 1 - < 5
Amm	onium bifluoride	134	1-49-7	>= 1 - < 3

Disodium Cocoampho Dipropionate68604-71-7>= 0.1 - < 1</th>Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURE	ES
General advice	 Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.
If inhaled	 Move to fresh air. IF INHALED: Call a POISON CENTER/ doctor if you feel unwell. If unconscious, place in recovery position and seek medical advice. Keep patient warm and at rest. If symptoms persist, call a physician.
In case of skin contact	 Take off contaminated clothing and shoes immediately. Call a physician or poison control centre immediately. Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water. Immediately flush contaminated skin with large quantities of cool running water for 5 minutes. Remove contaminated clothing while flushing contaminated skin. Immediately after washing, apply 2.5% calcium gluconate gel to all affected skin areas. (Note: If gel is not prepared within 5 minutes, continue flushing until gel is prepared.) The gel should be massaged into the affected skin by personnel wearing gloves to prevent skin contamination during first aid. Gel should be applied every 15 minutes and massaged continuously. Instead of calcium gluconate treatment, the affected areas may be soaked in iced 0.13% benzalkonium chloride solution (Zephiran chloride). Use ice cubes rather than shaved ice to prevent frostbite. If it is not practical to immerse affected area, towels should be changed every 2-3 minutes and continued until pain is relieved or victim is seen by a physician. If neither calcium gluconate nor benzalkonium chloride is available, use an iced saturated water solution of magnesium sulfate (Epsom salts), or if that is not available, iced 70% alcohol or ice water. Local anesthetics should be avoided since relief of pain indicates success of the treatment. ***Get medical attention as soon as possible.*** ::::NOTE::::Calcium gluconate with a 2-ounce tube of K-Y jelly (Johnson & Johnson). After a jar of this mixture has been opened and used, it should be discarded to prevent bacterial or chemical contamination.



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In case of eye contact If swallowed Most important symptoms and effects, both acute and delayed		: In the case of c of water and se Continue rinsin Remove conta Protect unharm Keep eye wide	ned eye. open while rinsing. tention immediately.
		Rinse mouth w Do not give mil Never give any If symptoms pe : Harmful if swal Fatal in contac	ith water. k or alcoholic beverages. thing by mouth to an unconscious person. ersist, call a physician. lowed or if inhaled. t with skin. allergic skin reaction.
		May cause can May cause dar exposure if swa Causes severe This product co fects from HF e treated or expo can cause dela neous tissue. upon the total a	and the systemic toxicity is largely dependent amount of fluoride ion absorbed. Thus inges-
		systemic effect potassium) and vascular effect with any conce development o acutely toxic ar ed exposure ar may produce s	ct or significant inhalation can cause severe s including electrolyte (calcium, magnesium, d acid-base abnormalities with resulting cardio- s. Exposure of >5% of the body surface area ntration of HF may predispose the patient to f hypocalcemia. Chronic exposure to less than mounts of HF is a low toxicity hazard. Repeat- nd absorption of 10-80 mg of fluoride per day ystemic fluorosis.
		largely depend sorbed. Ingesti cause systemic hypomagneser with resulting c	ontains fluoride. Acute systemic toxicity is ent upon the total amount of fluoride ion ab- on, significant skin contact or inhalation can c effects including electrolyte (hypocalcemia, nia, hyperkalemia) and acid-base abnormalities ardiovascular effects. Repeated exposure and 0-80 mg of fluoride per day may produce sys-

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Carbon dioxide (CO2)	
Unsuitable extinguishing media	:	High volume water jet	
Specific hazards during fire- fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.	
Hazardous combustion prod- ucts	:	Sulphur oxides Oxides of phosphorus Hydrogen fluoride	



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0	<i></i>			
Spe	ecific extinguishing meth-	:	Product is compa	tible with standard fire-fighting agents.
Fur	Further information		Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.	
	Special protective equipment for firefighters		In the event of fire	e, wear self-contained breathing apparatus.
SECTIC	N 6. ACCIDENTAL RELE	AS	E MEASURES	
	sonal precautions, protec-	:	• •	tective equipment.
	e equipment and emer- ncy procedures		Ensure adequate Avoid breathing d	
				ing protective equipment should be excluded until clean-up has been completed.
Env	vironmental precautions	:		akage or spillage if safe to do so.
			Do not flush into s	rom entering drains. surface water or sanitary sewer system. taminates rivers and lakes or drains inform ities.
	thods and materials for ntainment and cleaning up	:	acid binder, unive	t absorbent material (e.g. sand, silica gel, rsal binder, sawdust). closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	 Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Avoid contact with skin and eyes. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Dispose of rinse water in accordance with local and national regulations. Container hazardous when empty. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Prevent unauthorized access.
age stability	:	No decomposition if stored and applied as directed.



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Sulfuric acid	7664-93-9	TWA (Tho- racic fraction)	0.2 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0
Phosphoric acid	7664-38-2	TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		ST	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0
		STEL	3 mg/m3	OSHA P0
Hydrofluoric acid	7664-39-3	TWA	0.5 ppm (Fluorine)	ACGIH
		С	2 ppm (Fluorine)	ACGIH
		TWA	3 ppm 2.5 mg/m3	NIOSH REL
		С	6 ppm 5 mg/m3	NIOSH REL
		TWA	3 ppm	OSHA Z-2
		TWA	3 ppm (Fluorine)	OSHA P0
		STEL	6 ppm (Fluorine)	OSHA P0

Hazardous components without workplace control parameters

Components	CAS-No.
Sulfamic acid	5329-14-6
Ammonium bifluoride	1341-49-7
Disodium Cocoampho Di-	68604-71-7
propionate	

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Hydrofluoric acid	7664-39-3	Fluoride (Fluorine)	Urine	Prior to shift (16 hours after exposure ceases)	2 mg/l	ACGIH BEI
		Fluoride (Fluorine)	Urine	End of shift (As soon as possible after	3 mg/l	ACGIH BEI

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			exposure ceases)
En	gineering measures	ventilation to applicable) o	cient mechanical (general and/or local exhaust) maintain exposure below exposure guidelines (if r below levels that cause known, suspected or verse effects.
Pe	rsonal protective equ	pment	
Re	spiratory protection	: In the case of proved filter.	f vapour formation use a respirator with an ap-
Ha	nd protection	-	
	Remarks	er). The suita cussed with	nt gloves (consult your safety equipment suppli- ability for a specific workplace should be dis- the producers of the protective gloves. Discard how tears, pinholes, or signs of wear.
Ey	e protection	: Wear chemi	cal splash goggles and face shield when there is exposure of the eyes or face to liquid, vapor or
Sk	in and body protection	: Choose bod centration of Wear as app Impervious of Safety shoes	lothing
Hy	giene measures	: Handle in ac practice. Avoid contac When using Wash hands the product.	cordance with good industrial hygiene and safety et with skin, eyes and clothing. do not smoke. before breaks and immediately after handling do not eat or drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colour Odour pH	:	liquid green characteristic Expected 3
Melting point/freezing point	:	No data available
Boiling point/boiling range Flash point	:	No data available > 93.4 °C
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Relative vapour density	:	No data available
Density	:	> 1 g/cm3



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	ility(ies) ater solubility	: soluble		
Visco	•	: No data availa	able	
Vi	scosity, kinematic	: No data availa	able	
SECTION	10. STABILITY AND	REACTIVITY		

ECTION 10. STABILITY AND REACTIVITY

 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Hazardous polymerisation does not occur.
No data available
Strong oxidizing agents
Strong reducing agents
Oxides of phosphorus
Sulphur oxides
Hydrogen fluoride

SECTION 11. TOXICOLOGICAL INFORMATION

Information on	likely routes o	f exposure
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Inhalation Eye contact Skin contact Ingestion

Acute toxicity

Harmful if swallowed or if inhaled. Fatal in contact with skin.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 1,250 mg/kg Method: Calculation method
		Remarks: Causes digestive tract burns.
Acute inhalation toxicity	:	Acute toxicity estimate: 10 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: 99.78 mg/kg Method: Calculation method
Components:		
Sulfuric acid:		

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	Phosp	horic acid:			
	Acute of	oral toxicity	:	LD50 (Rat): ca. 2	,600 mg/kg
	Acute of	dermal toxicity	:	LD50 (Rabbit): 2,	740 mg/kg
	Hydrof	fluoric acid:			
	Acute of	oral toxicity	:	Assessment: The gestion.	component/mixture is toxic after single in-
	Acute i	nhalation toxicity	:	Assessment: The term inhalation.	component/mixture is highly toxic after short
	Acute dermal toxicity		:	LDLo (Mouse): 50 Assessment: The single contact wit	component/mixture is extremely toxic after
	Sulfam	nic acid:			
	Acute of	oral toxicity	:	LD50 (Rat): 3,160) mg/kg
	Acute o	dermal toxicity	:	LD50 (Rabbit): > Method: OECD T Assessment: No dermal toxicity tes	est Guideline 402 adverse effect has been observed in acute
	Ammo	nium bifluoride:			
	Acute of	oral toxicity	:	LD50 (Rat): ca. 1	30 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:

Remarks: Both the liquid and vapor can cause severe burns which may not be immediately painful or visible. Pain may become gradually more severe, possibly taking 1-24 hours to become noticable. These burns can be very deep, possibly causing bone damage, and are very slow to heal. Even solutions containing 2% or less hydrogen fluoride or other inorganic fluoride compounds can cause burns and tissue damage.

Components:

Sulfuric acid:

Result: Causes severe burns.

Phosphoric acid:

Species: Rabbit Result: Corrosive after 1 to 4 hours of exposure

Hydrofluoric acid:

Result: Corrosive after 3 minutes or less of exposure

Sulfamic acid:

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	Result:	Severe skin irritation							
	Ammonium bifluoride: Result: Corrosive after 4 hours or less of exposure								
		s eye damage/eye irr s serious eye damage.							
	Produc Remark	: <u>t:</u> ks: May cause irrevers	ible eye damage.						
	Compo	onents:							
		c acid: Irreversible effects on ment: Corrosive	the eye						
	Phosphoric acid: Result: Irreversible effects on the eye Assessment: Corrosive								
	Result:	luoric acid: Irreversible effects on ment: Corrosive	the eye						
		ic acid: Irritating to eyes.							
		nium bifluoride: Irreversible effects on	the eye						
		um Cocoampho Dipro	opionate:						
	Respira	atory or skin sensitis	ation						
		e nsitisation use an allergic skin re	action.						
	-	atory sensitisation ssified based on availa	able information.						
	Produc Remark	: <u>t:</u> ks: May cause allergic	skin reaction.						
	Compo	onents:							
	Species	um Cocoampho Dipr s: Guinea pig : OECD Test Guidelin	-						



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Resul	t: May cause sensitis	ation by skin conta	ct.		
	cell mutagenicity				
Not cl	assified based on ava	ailable information.			
<u>Comp</u>	onents:				
Sulfa	mic acid:				
Genot	oxicity in vitro		n: Salmonella typhimurium activation: with and without metabolic activati	ior	
Amm	onium bifluoride:				
Genot	oxicity in vitro	: Test Type: Test syster Result: neg	n: Salmonella typhimurium		
Genot	oxicity in vivo	: Result: In vivo tests did not show mutagenic effects Remarks: Information given is based on data obtained fr similar substances.		fro	
Carci	nogenicity				
May c	ause cancer.				
<u>Comp</u>	oonents:				
Sulfu	ric acid:				
Carcir ment	nogenicity - Assess-	: Positive ev	idence from human epidemiological studies		
IARC		Group 1: Card	inogenic to humans		
		Sulfuric acid	7664-93-9		
OSH	A		No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.		
NTP		Known to be h	numan carcinogen		
		Sulfuric acid	7664-93-9		

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Bone, Skeleton) through prolonged or repeated exposure if swallowed.

Components:

Ammonium bifluoride:

Exposure routes: Ingestion



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Target Organs: Bone, Skeleton

Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

Remarks: Information taken from reference works and the literature.

Repeated dose toxicity

Components:

Ammonium bifluoride:

Remarks: Substances that, on the basis of evidence from studies in experimental animals can be presumed to have the potential to be harmful to human health following single exposure

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from residues	:	Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Dangerous goods descriptions (if indicated below) may not reflect quantity, end-use, or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

International Regulations

IATA-DGR		
UN/ID No.	:	UN 2922
Proper shipping name	:	Corrosive liquid, toxic, n.o.s. (Sulfuric Acid, Hydrofluoric acid)
Class	:	8
Subsidiary risk	:	6.1
Packing group	:	1
Labels	:	8 (6.1)
Packing instruction (cargo aircraft)	:	854
Packing instruction (passenger aircraft)	:	850



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UN n Prope Class Subsi Packi Label EmS	idiary risk ing group			IQUID, TOXIC, N.O.S. Iydrofluoric acid)
	sport in bulk accordi pplicable for product a	-		RPOL 73/78 and the IBC Code

National Regulations

49 CFR	
UN/ID/NA number	: UN 2922
Proper shipping name	: Corrosive liquids, toxic, n.o.s. (Sulfuric Acid, Hydrofluoric acid)
Class	: 8
Subsidiary risk	: 6.1
Packing group	: 1
Labels	: 8 (6.1)
ERG Code	: 154
Marine pollutant	: no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Hydrofluoric acid	7664-39-3	100	2000
Methanol	67-56-1	100	100 (F003)

SARA 304 Extremely Hazardous Substances Reportable Quantity

	-	-	
Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Hydrofluoric acid	7664-39-3	100	2000

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Sulfuric acid	7664-93-9	1000
Hydrofluoric acid	7664-39-3	100

SARA 311/312 Hazards

:	Corrosive to metals
	Acute toxicity (any route of exposure)
	Skin corrosion or irritation
	Serious eye damage or eye irritation
	Respiratory or skin sensitisation
	Carcinogenicity
	Specific target organ toxicity (single or repeated exposure)

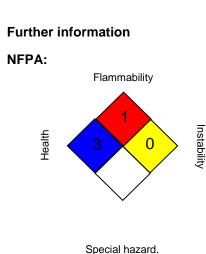


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SARA 313		: The following components are subject to reporting levels es- tablished by SARA Title III, Section 313:			
		Sulfuric acid	7664-93-9	>= 10 - < 20 %	
		Hydrofluoric ac	d 7664-39-3	>= 5 - < 10 %	

California Prop. 65

WARNING: This product can expose you to chemicals including Sulfuric acid, Formaldehyde, Dichloroacetic acid, which is/are known to the State of California to cause cancer, and Methanol, Dichloroacetic acid, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION



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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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