

NATIONAL CHEMICAL LABORATORIES, INC.

SAFETY DATA SHEET

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	Section 1 - Ide	entification				
Product Identifier	TWISTER™ RTU (1-5) Mineral	Deposit / Grout Film Remover				
Other means of identification	2517 (1-5)					
Recommended use	Mineral Deposit / Cement Filn	Mineral Deposit / Cement Film Remover				
Recommended restrictions	For commercial and industrial use only.					
Manufacturer / Importer / S	Supplier / Distributor Information					
Company Name	National Chemical Laboratories of PA, Inc.					
Address	401 N. 10th Street - Philadelphia, PA 19123					
Telephone	1 (215) 922-1200					
Supplier Email	info@nclonline.com					
Contact	CHEM-TEL					
Emergency Phone	1 (800) 255-3924					
	Section 2 - Hazard(s) Identification				
	Classification	Category				
Physical Hazards	Not Classified					
Health Hazards	Serious eye damage/eye irritation	1				
	Skin corrosion/irritation	1B				
OSHA defined hazards	Not Classified.					
Label Elements						
Hazard Symbol	\wedge					
Signal Word	Danger					
Hazard Statement	Causes severe skin burns and eye damage. May cause	e respiratory irritation.				
Precautionary statement						
Prevention	Keep only in original container. Use only in a well-ven handling. Wear protective gloves/protective clothing,	tilated area. Do not breathe mist or vapor. Wash thoroughly after 'eye protection/face protection.				
Response	swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse kin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse autiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately all a poison center/doctor. Wash contaminated clothing before reuse.					
Storage	Store locked up. Store in corrosive resistant container	with a resistant inner liner				
Disposal	Dispose of contents/container in accordance with loc	Dispose of contents/container in accordance with local/regional/national/international regulations.				
Hazard(s) not otherwise classified (HNOC)	None known.					

Section 3 - Composition/Information on ingredients

Mixture					
Hazardous Components	Ingredient Name	CAS #	%		
	Hydrochloric Acid	7647-01-1	0.1 - 2		
	Section 4 - First	-aid Measures			
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison control center if symptoms develop or persist.				
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.				
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately				
Ingestion	Call a physician or poison control center immed so that stomach content doesn't get into the lu	, 0	f vomiting occurs, keep head low		

Most Important symptoms or effects, acute and delayed

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		-		. Symptoms may include stinging, tearing, dness could result. May cause respiratory	
Indication of immediate medical a	attention and special treatment	t needed			
	o 11	ch do not adhere to	affected area. Call an amb	ourns: Flush with water immediately. While ulance. Continue flushing during transport to	
General Information				ke precautions to protect themselves.	
	Section	5 - Fire-fia	hting measures		
Suitable extinguishing media	RTU product will not suport c	-	-	(02)	
Unsuitable extinguishing	Do not use water jet as an ext		-	(02).	
media	bo not use water jet us un ex		in spread the fire.		
Specific hazards arising from the chemical	During fire, Corrosive vapors	and gases hazardou	is to health may be formed		
Special protective equipment and precautions for firefighters	Self-contained breathing appa	aratus and full prote	ective clothing must be wo	n in case of fire.	
Fire-fighting equipment /instructions	Move containers from fire are	ea if you can do it w	rithout risk.		
General fire hazards	No unusual fire or explosion h	nazards noted.			
Specific Methods	Use standard firefighting proc	cedures and conside	er the hazards of other invo	lved materials.	
	Section 6 -	Accidental	release measur	es	
Personal precautions, protective equipment and emergency procedures.	ve Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.				
Methods and materials for containment and cleaning up Environmental precautions	This product is miscible in water. Should not be released into the environment. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.				
	Section	n 7 - H andliı	ng and storage		
Dressutions for sofe handling				aid analog and any annual Duavida a deguate	
Precautions for safe handling				oid prolonged exposure. Provide adequate d industrial hygiene practices. Use care in	
Conditions for safe storage, including any incompatibilities	Store locked up. Store in origi	nal tightly closed co	ontainer. Store away from i	ncompatible materials (see Section 10 of the SDS).	
	Section 8 - Exp	osure conti	rol personal prot	ection	
Occupational exposure limits					
	Air Contaminants (29 CFR 1910	0.1000)			
Components		Туре	Value	Form	
Hydrochloric Acid (CAS 764	7-01-1)	TWA	7 mg/m ³ , 5 ppm		
US. ACGIH Threshold Limit V	alues				
Component		Туре	Value	Form	
Hydrochloric Acid (CAS 764	7-01-1)	TLV-C	2ppm, URT irr		
Biological limit values	No biological exposure limits	noted for the ingre	dient(s).		
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency shower must be available when handling this product.				
Individual protection measures, s	uch as personal protective equ	ipment			
Eye/face protection	If use of product risks exposu	re to contact, wear	safety glasses with side shi	elds.	
Skin protection					
Hand protection	Impervious gloves are recommended for prolonged use.				
Other Bosniratory protoction	If use of product risk exposure to contact, wear suitable protective clothing.				

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. No personal respiratory protective equipment

normally required if used with adequate ventilation.

Wear appropriate thermal protective clothing, when necessary.

Thermal hazards General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 - Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Clear, thin liquid.
Color	Colorless.
Odor	Slight, irritating odor.
Odor threshold	Not available.
рН	<1
Melting point/freezing point	Not available.
Initial boinging point and	212 °F (100 °C)
boiling range	
Flash point	None to boiling.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Similar to water.
Vapor density	Similar to water.
Relative density	1.01 ± 0.01
Relative density temperature	75 °F (23.9 °C)
Solubilities (water)	Completely soluble
Partition Coefficient n-	Not available.
octanol/water	
Auto-ignition temperature	Not Available.
Decomposition temperature	Not Available.
Viscosity	< 10 cSt
Viscosity Temperature	75 °F (23.9 °C)

Section 10 - Stability and reactivity

Reactivity	Reacts violently with strong alkaline substances. This product may react with reducing agents.
Chemical stability	Material is stable under normal conditions.
Possiblity of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	Do not mix with other chemicals. Contact with incompatible materials.
Incompatible materials	Bases. Amines. Alkanolamines, Isocyanates, Copper, Metals, Oxidizing or Reducing agents.
Hazardous Decomposition	Hyrdrogen chloride.
Products	

Section 11 - Toxicological information

Information on likely routes of	exposure					
Ingestion	Causes digestive tract burns.					
Inhalation	May cause irritation	to the respiratory	system.			
Skin contact	Causes severe skin b	Causes severe skin burns.				
Eye contact	Causes serious eye	damage.				
Symptoms related to the physical, chemical and toxicological characteristics Information on toxicological eff	redness, swelling, a		•	•	• • • •	rinclude stinging, tearing, It.
Acute toxicity	May be harmful if s	wallowed.				
Components		Level	Туре	Code	Species	Results
Hydrochloric Acid (CAS 764	7-01-1)	Acute	Dermal	LD50	Rabbit	>5010 mg/kg
		Acute	Oral	LD50	Rat	700 mg/kg
Skin corrosion/irritation	Causes severe skin b	ourns and eye dama	age.			

	SAF				
Serious eye damage/ eye	Causes serious eye damage.				
irritation					
Respiratory sensitization	Not a respiratory sensitizer.				
Skin sensitization	This product is not expected to cause skin sensitization.				
Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.CarcinogenicityThis product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.					
Carcinogenicity	This product is not considered	to be a carcinogen by IARC, ACGIH, NT	P, or USHA.		
Reproductive toxicity	This product is not expected to	o cause reproductive or developmental	effects.		
Specific target organ toxicity -	Not classified.				
single exposure					
Specific target organ toxicity - repeated exposure	Not classified.				
Aspiration hazard	Not an aspiration hazard.				
Chronic effects	Prolonged inhalation may be h	armful.			
	<u> </u>				
		12 - Ecological Informa			
Ecotoxicity	Because of the low pH of this organisms and aquatic system		ce significant ecotoxicity upon exposure to aquatic		
Component(s)					
Hydrochloric Acid (CAS 7647-	-01-1)				
Aquatic					
Level Type	Code		Test Results		
Acute Fish	LC50		862 mg/l, 48 hours		
Persistence and degradability	No data is available on the deg	gradability of this product.			
Bioaccumulative potential	Not established.				
Mobility in soil	No data available.				
Mobility in general	No data available.				
Other adverse effects	No other adverse environmen	tal effects (e.g. ozone depletion, photo	chemical ozone creation potential, endocrine		
	disruption, global warming por	tential) are expected from this compon	ent.		
	Section 1	3 - Disposal considerat	ions		
Disposal instructions		3 - Disposal considerat			
-		plicable federal, state, and local regula			
Local disposal regulations	Dispose in accordance with ap Dispose of in accordance with	plicable federal, state, and local regula	tions.		
Local disposal regulations Hazardous waste code	Dispose in accordance with ap Dispose of in accordance with	plicable federal, state, and local regula local regulations. ed by the user based on the application	tions.		
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	Pressure Hazard No Reactivity Hazard Yes				
SARA 302 Extremely haza	rdous substance				
Chemical name	CAS #	Reportable Quantity	Threshold Planning Quantity	Threshold Planning quantity, lower value	Threshold Planning quantity, upper value
Hydrochloric Acid	7647-01-1	5000	500		
SARA 311/312 Hazardous	chemical Yes				
SARA 313 (TRI reporting)					
Chemical	name		CAS #	% by wt.	
Hydrochl	oric Acid		7647-01-1	0.1 - 2	
Other federal regulations					
-	n 112 Hazardous Air Pollutant	s (HAPs) List			
τ,	Components	. ,			
	Hydrochloric Acid (CAS	7647-01-1)			
Clean Air Act (CAA) Sectio	n 112(r) Accidental Release Pi		68.130) Hydrod	chloric Acid (CAS 7647-01-0)	l.
Drug Enforcement Admini Exempt Chemical Mixture	istration (DEA), List 1 2	-	Acid (CAS 7647-01-0)	20	
DEA Exempt Chemical Mix		Hydrochloric 6545	Acid (CAS 7647-01-0)		
Safe Drinking Water Act (S Food and Drug Administra					
US state regulations					
US.Massachusetts RTK - Su	ibstance List	Compone Hydrochlo	nts pric Acid (CAS 7647-01-1)		
US.New Jersey Worker and	l Community Right-to-Know A	-	nts pric Acid (CAS 7647-01-1)		
US.Pennsylvania RTK - Haz	ardous Substances	Compone			
US.Rhode Island RTK		Compone			
US - California Proposition	65	This mate		ou to a chemical known to t eproductive harm.	he State of California to
International Inventories					
Country(s) or region	Inventory Name				On Inventory (yes/no)*
Australia	Australian Invent	ory of Chemical	Substances (AICS)		Yes
Canada	Domestic Substa	nces List (DSL)			Yes
Canada	Non-Domestic Su	bstances List (NI	DSL)		No
China	Inventory of Exis	ting Chemical Su	bstances in China (IECSC)		Yes
Europe	European Invent	ory of Existing Co	mmercial Chemical Substa	inces (EINECS)	Yes
Europe	-		l Substances (ELINCS)		No
Japan	Inventory of Exis	ting and New Ch	emical Substances (ENCS)		Yes
Korea	Existing Chemica	ls List (ECL)			Yes
New Zealand	New Zealand Inv	entory			Yes
Philippines	Philippine Invent	ory of Chemicals	and Chemical Substances		Yes
Unites States Puerto Rico	Toxic Substances	Control Act (TSC	A) Inventory		Yes
-	duct complies with the invent or more components of the p	• •		U 1 (1)	tered by the governing

country(s).

Section 16 - Other information, including date of preparation or last versionRevision date6/1/2023Version #03DisclaimerThe information contained herein was obtained from current and reliable sources. However, the data is provided without any
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