

NATIONAL CHEMICAL LABORATORIES, INC.

DAFETV DATA OUFEI

	Section 1 - I	dentification				
Product Identifier	ASTRO-CHEM RTU (1:8, 1:1	6) Industrial Degreaser Cleaner				
Other means of identification	1020 (1-8, 1-16)					
Recommended use	Alkaline cleaner.					
Recommended restrictions	Recommended restrictions For commercial and industrial use only. User prepared Ready-To-Use solution. 1:8 to 1:16 in water.					
Manufacturer / Importer / Su	pplier / 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 - Hazar	d(s) Identification				
	Classification	Cotocom				
Physical Hazards	Not Classified	Category				
Health Hazards		1				
nealth nazarus	Serious eye damage/eye irritation					
	Skin corrosion/irritation	1				
OSHA defined hazards	Not Classified.					
Label Elements						
Hazard Symbol						
Signal Word	Danger					
Hazard Statement	Causes severe skin burns and eye damage.					
recautionary statement						
Prevention	Do not breathe mist or vapor. Wash thoroughly aft	ter handling. Wear protective gloves/clothing and eye/face protection.				
Response	If swallowed: Rinse mouth. Do NOT induce vomitin skin with water/shower. Wash contaminated cloth	ng. If on skin (or hair): Take off immediately all contaminated clothing. Rinse ning before reuse. If inhaled: Remove person to fresh air and keep on center/doctor. If in eyes: Rinse cautiously with water for several				
Storage	Store locked up.					
Disposal	Dispose of contents/container in accordance with	local/regional/national/international regulations.				
lazard(s) not otherwise	None known.					

Section 3 - Composition/Information on ingredients

Mixture			
Hazardous Components	Ingredient Name	CAS #	%
	Sodium Hydroxide	1310-73-2	0.1 - 1
	2-Butoxyethanol	111-76-2	0.1 - 1
	4-Nonylphenol, branched, ethoxylated	127087-87-0	0.1 - 1
Composition Comments	Components not listed are either non-hazardous or are below reportable limi	its.	

	Section 4 - First-aid Measures
Inhalation	If respiratory irritation or distress occurs, remove victim to fresh air. If breathing is difficult, give oxygen. If breathing stops, apply artificial respiration. CONSULT A PHYSICIAN.
Skin contact	Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Check and remove contact lenses. Continue to rinse for at least 10 minutes.

Ingestion	Rinse mouth thoroughly with water. DO NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration. Call a physician or poison control center immediately.					
Nost Important symptoms or eff	ects. acute and delaved	ł				
	Causes skin and eye l					
ndiantion of immediate medical	-					
Indication of immediate medical	-					
General Information	Treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.					
	Se	ection 5 - Fi	re-figl	hting measures		
Suitable extinguishing media	RTU product will not	suport combustior	n. Water f	og. Foam. Carbon dioxide (CO2).		
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.					
Specific hazards arising from the chemical	During fire, gases haz	zardous to health n	may be fo	rmed.		
Special protective equipment and precautions for firefighters	Self-contained breath	hing apparatus and	d full prote	ective clothing must be worn in c	ase of fire.	
Fire-fighting equipment /instructions	Move containers fror	n fire area if you ca	an do it w	ithout risk. Use water spray to ke	eep fire-exposed containers co	ol.
	Sectio	on 6 - Accia	dental	release measures		
Personal precautions, protective equipment and emergency procedures.	Isolate area. Keep un	inecessary personn	nel away.	Use personal protection as recon	nmended in Section 8 of the Si	DS.
Methods and materials for containment and cleaning up		pill with vermiculit	te or othe	ent material. r inert material, then place in a c	ontainer for chemical waste. A	fter removal
	flush contaminated area thoroughly with water. Avoid discharge into drains, water courses or onto the ground.					
Environmental precautions	Avoid discharge into	aranis, water cours	Ses of on	the ground.		
Environmental precautions	-			ng and storage		
	So Do not get in eyes, or	e ction 7 - H n skin, or on clothiu	landlii ng. Do no	ng and storage t breathe mist or vapor. Do not ta		
Precautions for safe handling Conditions for safe storage,	So Do not get in eyes, or	ection 7 - H n skin, or on clothin oroughly after hand	landlii ng. Do no dling. Use	ng and storage t breathe mist or vapor. Do not t Personal Protective Equipment r		
Precautions for safe handling Conditions for safe storage,	Do not get in eyes, or ventilation. Wash the Store away from inco	ection 7 - H n skin, or on clothin proughly after hand pmpatible material	landlin ng. Do no dling. Use ls. Keep co	ng and storage t breathe mist or vapor. Do not to Personal Protective Equipment r ontainer closed.	recommended in section 8 of t	
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US.NIOSH: Pocket Guide to C	bemical Hazards		
Component		Exposure	
•		Can be absorbed though the skin.	
	Air Contaminants (29 CFR 1910.100)		
Components	· · · · ·	Exposure	
2-Butoxyethanol (CAS 111-	76-2)	Can be absorbed though the skin.	
US.OSHA Table Z-1-A (29 CFR	1910.100)	-	
Components		Exposure	
2-Butoxyethanol (CAS 111-	76-2)	Can be absorbed though the skin.	
US. Tennesee. OELs Occupati	onal Exposure Limkits, Table Z1A		
Components		Exposure	
2-Butoxyethanol (CAS 111-	76-2)	Can be absorbed though the skin.	
Appropriate engineering controls	Provide adequate ventilation and min supply and eye wash facilities.	imize the risk of inhalation of vapors and mists. Provide easy access to water	
Individual protection measures, s	such as personal protective equipment		
Eye/face protection	If use of product risks exposure to con	tact, wear safety glasses with side shields.	
Skin protection			
Hand protection	Impervious gloves are recommended for prolonged use.		
Other	If use of product risk exposure to contact, wear suitable protective clothing.		
Respiratory protection	Use a respirator when local exhaust or ventilation is not adequate to keep exposures below the OEL. In a confined space a supplied respirator may be required.		
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.	
General hygiene considerations	, , , , ,	e measures, such as washing after handling the material and before eating, drinking, clothing and protective equipment to remove contaminants.	

Section 9 - Physical and chemical properties

Section 9 - Physical and chemical properties			
Appearance	Clear.		
Physical state	Liquid.		
Form	Liquid.		
Color	Light Green.		
Odor	Citrus.		
Odor threshold	Not available.		
рН	12.2 - 12.5		
Melting point/freezing point	Not available.		
Initial boinging point and boiling range	212 °F (100 °C)		
Flash point	> 212.0 °F (> 100.0 °C)		
Evaporation rate	Not available.		
Flammability (solid, gas)	Not applicable.		
Upper/lower flammability or expl			
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)	100 % Soluble.		
Partition Coefficient n-	Not available		
octanol/water			
Auto-ignition temperature	Not Available		
Decomposition temperature Viscosity	Not Available < 10 cP		
Viscosity Viscosity Temperature			
	75 °F (23.9 °C)		
	Section 10 - Stability and reactivity		

Section 10 - Stability and reactivity

The product is non-reactive under normal conditions of use, storage and transport.

Reactivity
Chemical stability
Possiblity of hazardous reactions
Conditions to Avoid

Stable at normal conditions. Hazardous polymerization does not occur. Contact with incompatible materials.

Incompatible materials
Hazardous Decomposition
Products

Strong oxidizing agents. Carbon monoxide. Carbon dioxide.

Section 11 - Toxicological information

	Sec	tion 11 - 10	xicological	informa	tion		
Information on likely routes of e	xposure						
Ingestion	May be harmful if swallowed.						
Inhalation	May cause burns in	May cause burns in mucous membranes, throat, esophagus and stomach.					
Skin contact	Causes skin burns.	Causes skin burns.					
Eye contact	Causes serious eye	Causes serious eye damage.					
Symptoms related to the physical, chemical and toxicological characteristics	Causes skin and eye	e burns. Symptoms	may be delayed.				
Information on toxicological effe	ects.						
Acute toxicity	May be harmful if s	wallowed.					
Components		Level	Туре	Code	Species	Results	
2-Butoxyethanol (CAS 111-7	76-2)	Acute	Dermal	LD50	Rabbit	400 mg/kg	
		Acute	Inhalation	LC50	Mouse	700 ppm, 7 hours	
		Acute	Inhalation	LC50	Rat	450 mg/l, 4 hrs	
		Acute	Oral	LD50	Guinea pig	1.2 g/kg	
		Acute	Oral	LD50	Mouse	1519 mg/kg	
		Acute	Oral	LD50	Rabbit	0.32 g/kg	
		Acute	Oral	LD50	Rat	560 mg/kg	
Skin corrosion/irritation	Causes skin burns.						
Serious eye damage/ eye irritation	Causes serious eye	damage.					
Respiratory sensitization	Not classified.						
Skin sensitization	Not classified.						
Germ cell mutagenicity	Not classified.						
IARC Monographs. Overall Evalu	ation of Carcinogenicit	ty					
	Component			Result	Comment		
	2-Butoxyethanol (C	CAS 111-76-2)		3	Not classifiable as to	carcinogenicity to humans.	
Reproductive toxicity	Not classified.						
Specific target organ toxicity - single exposure	Not classified.						
Specific target organ toxicity - repeated exposure	Not classified.						
Aspiration hazard	Not classified.						

Section 12 - Ecological Information

				-		
Ecotoxicity	cotoxicity The product contains a substance which is toxic to aquatic organisms.					
Component(s)						
Nonylpheno	l, ethoxylated (CAS	5 9016-45-9)				
Aquatic						
Level	Туре	Co	ode	Species	Test Results	
Acute	Crustacea	E	C50	Daphnia magna	65 mg/l, 48 hours	
	Crustacea	E	C50	Water flea (Daphnia magna)	12.2 mg/l, 48 hours	
	Fish	L	.C50	Bluegill (lepomis macrochirus)	1 - 1.8 mg/l 96 hours	
Persistence and degradability		The product is expected to be biodegradable.				
Bioaccumulative potential Not known.						
Partition coefficient n-octanol / water log (Kow)						
Components				Results		
2-Butoxyethanol (CAS 111-76-2)		-76-2)		0.83		
4-Nonylphenol, branched, ethoxylated (CAS 127087-87-0)		2.1 - 3.4 (Calculated)				
Mobility in soil		Not available.				
Mobility in gene	eral	The product is water solubl	le and ma	av spread in water systems.		
Other adverse e		None known.				

Section 13 - Disposal considerations

Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Waste codes should be assigned by the user based on the application for which the product was used.
Waste from residues / unused products	Dispose in accordance with all applicable regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 - Transport information

General Information

This product is customer diluted for on site use only. No transportation information is anticipated or provided. The regulatory transport classification of the product without consideration to dilution strength, packaging, quantity, or modal restrictions and exceptions can not be anticipated. It is the user's responsibility to determine the appropriate packaging and modal requirements and/or limitations for the product quantity being shipped.

Section 15 - Regulatory Information

US federal regulations	This product is	a "Hazardous	Chemical" as defined by the O	SHA Hazard Co	mmunication Standard, 29 CFR 1910.12	200.
TSCA Section 12(b) Ex	port Notification (40 CF	R707, Subpt. D) Not regulate	d.		
US. OSHA Specifically	Regulated Substances (29 CFR 1910.1	001-1050) Not listed.			
CERCLA Hazardous Su	bstance List (40 CFR 302	2.4				
Component	ts		Result			
Sodium Hyd	droxide (CAS 1310-73-2)		LISTED			
Superfund Amendme	nts and Reauthorization	Act of 1986 (SARA)			
Hazard Categories Immediate Hazard Yes						
	Delayed Hazard	No				
	Fire Hazard	No				
	Pressure Hazard	No				
	Reactivity Hazard	No				
SARA 302 Extremely h	nazardous substance	Not listed.				
SARA 311/312 Hazard	lous chemical	Yes				
SARA 313 (TRI reporti						
	nical name			AS #	% by wt.	
2-But	toxyethanol		1	11-76-2	0.1 - 1	
Other federal regulations						
Clean Air Act (CAA) Se	ction 112 Hazardous Air	r Pollutants (H	APs) List	Not regulate	ed.	
Clean Air Act (CAA) Se	ction 112(r) Accidental	Release Preve	ntion (40 CFR 68.130)	Not regulate	ed.	
Safe Drinking Water A	Act (SDWA) Not reg	gulated.				
Food and Drug Admin	istration (FDA) Not reg	gulated.				
US state regulations						
US.Massachusetts RTK - Substance List			Components			
			Sodium Hydroxide (CAS 13	10-73-2)		
			2-Butoxyethanol (CAS 111-	76-2)		
US.New Jersey Worker and Community Right-to-Know Act			Components			
			Sodium Hydroxide (CAS 1310-73-2)			
			2-Butoxyethanol (CAS 111-	76-2)		
US.Pennsylvania RTK - Hazardous Substances			Components			
			Sodium Hydroxide (CAS 1310-73-2)			
			2-Butoxyethanol (CAS 111-	76-2)		
US.Rhode Island RTK			Components			
			Sodium Hydroxide (CAS 13	10-73-2)		
			2-Butoxyethanol (CAS 111-	-		
US - California Proposition 65			California Safe Drinking Wa	ter and Toxic E	nforcement Act of 1986 (Proposition 65	5): This
			material is not known to expose you to any chemicals currently listed as carcinogens or			
			reproductive toxins.			
International Inventories					- .	
Country(s) or region	Inventor	y Name			On Inventory	(yes/no)*

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notifed Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes
Unites States Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Se	ction 1	6 - O	ther inform	ation,	including date o	of pre	paratio	n or last versi	on
Revision date	6/1/202	3							
Version #	03								
HMIS Hazard Codes	Health	2	Flammability	0	Physical Hazard	0	PPE	В	
Disclaimer	warranty this prod	/, expre luct are	ssed or implied, replied, replied and the manuf	garding if facturer's	ined from current and relial ts correctness or accuracy. S control, it is the user's resp	Since the consibility	conditions for the conditions for the conditions for the condition of the	or use, handling, storagermine safe conditions	ge and disposal of s for use of this

warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.