

NATIONAL CHEMICAL LABORATORIES, INC.

SAFETY DATA SHEET

	Section 1 - Identifi	cation					
Product Identifier	ASTRO-CHEM Industrial Degreaser Cle	aner Concentrate					
Other means of identification	on 1020						
Recommended use	Alkaline cleaner.	Alkaline cleaner.					
ecommended restrictions	For commercial and industrial use only	у.					
1anufacturer / 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) Id	entification					
SDS Hazard	Is and Warnings are based on the undiluted product. Refer to	diluted SDS for Ready-T	o-Use Hazards and W	arnings.			
	Classification	Category					
Physical Hazards	Not Classified						
Health Hazards	Serious eye damage/eye irritation	1					
	Skin corrosion/irritation	1					
	Specific target organ toxicity, single exposure	3	TARGET ORGAN: res	piratory tract			
			irritation				
OSHA defined hazards	Not Classified.						
abel Elements							
Signal Word	Danger						
Hazard Statement	Causes severe skin burns and eye damage. May cause respira	tory irritation.					
ecautionary statement	, , , ,	,					
Prevention	Do not breathe mist or vapor. Wear protective gloves/protect thoroughly after handling. Do not eat, drink or smoke when u						
-		ising this product. Use in n (or hair): Take off immoreuse. If inhaled: Remov ater for several minutes.	a well-ventilated area ediately all contamina e person to fresh air a	or outdoors. ted clothing. Rinse nd keep			
Prevention	thoroughly after handling. Do not eat, drink or smoke when u If swallowed: Rinse mouth. Do NOT induce vomiting. If on skii skin with water/shower. Wash contaminated clothing before comfortable for breathing. If in eyes: Rinse cautiously with wa	ising this product. Use in n (or hair): Take off immoreuse. If inhaled: Remov ater for several minutes.	a well-ventilated area ediately all contamina e person to fresh air a	or outdoors. ted clothing. Rinse nd keep			
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Prevention Response Storage Disposal azard(s) not otherwise assified (HNOC)	thoroughly after handling. Do not eat, drink or smoke when u If swallowed: Rinse mouth. Do NOT induce vomiting. If on skit skin with water/shower. Wash contaminated clothing before comfortable for breathing. If in eyes: Rinse cautiously with wa easy to do. Continue rinsing. Immediately call a poison center Store locked up. Dispose of contents/container in accordance with local/region None known. Section 3 - Composition/Informat Ingredient Name 2-Butoxyethanol Sodium dimethylbenzenesulfonate	ising this product. Use in n (or hair): Take off imm reuse. If inhaled: Remov ater for several minutes. r/doctor. nal/national/internation ation on ingred CA 11 13 25	a well-ventilated area ediately all contamina e person to fresh air a Remove contact lense al regulations. ients S # 1-76-2 00-72-7	% 5 - 10 1 - 5			
Prevention Response Storage Disposal azard(s) not otherwise assified (HNOC) Wixture	thoroughly after handling. Do not eat, drink or smoke when u If swallowed: Rinse mouth. Do NOT induce vomiting. If on skit skin with water/shower. Wash contaminated clothing before comfortable for breathing. If in eyes: Rinse cautiously with wa easy to do. Continue rinsing. Immediately call a poison center Store locked up. Dispose of contents/container in accordance with local/region None known. Section 3 - Composition/Informa Ingredient Name 2-Butoxyethanol Sodium dimethylbenzenesulfonate Sodium dodecylbenzenesulfonate	ising this product. Use in n (or hair): Take off imm reuse. If inhaled: Remov ater for several minutes. r/doctor. nal/national/internation ation on ingred 11 13 25 13	a well-ventilated area ediately all contamina e person to fresh air a Remove contact lense al regulations. ients S # 1-76-2 00-72-7 155-30-0	% 5 - 10 1 - 5 1 - 5			

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.
Most Important symptoms or effe	cts, acute and delayed
	Causes skin and eye burns.
Indication of immediate medical a	ttention and special treatment needed
	Treat symptomatically.
General Information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
	Section 5 - Fire-fighting measures
Suitable extinguishing media	Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment /instructions	Move containers from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool.
General fire hazards	This product is not flammable or combustible.
	Section 6 - Accidental release measures
Personal precautions, protective equipment and emergency procedures.	Isolate area. Keep unnecessary personnel away. Use personal protection as recommended in Section 8 of the SDS.
Methods and materials for containment and cleaning up	SMALL SPILLAGE: Absorb spillage with suitable absorbent material. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water. LARGE SPILLS: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
	Section 7 - Handling and storage
Precautions for safe handling	Do not get in eyes, on skin, or on clothing. Do not breathe mist or vapor. Do not taste or swallow. Use with adequate ventilation. Wash thoroughly after handling. Use Personal Protective Equipment recommended in section 8 of the SDS.
Conditions for safe storage, including any incompatibilities	Store away from incompatible materials. Keep container closed.

Section 8 - Exposure control/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 191	LO.1000)			
Components	Туре	Value	Form	
2-Butoxyethanol (CAS 111-76-2)	TWA	240 mg/m³ , 50 ppm		
Sodium Hydroxide (CAS 1310-73-2)	TWA	2 mg/m³		
US. ACGIH Threshold Limit Values				
Component	Туре	Value	Form	
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm		
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m³		
US. NIOSH: Pocket Guide to Chemical Hazards				
Components	Туре	Value		
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m³, 5 ppm		
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m³		
US. ACGIH. BEIs. Biological Exposure Indices				Sampling
Components	Value	Determinate	Specimen	Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

* - For sampling details, please see the source document.

US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

	SALLI				
Components		Exposure			
2-Butoxyethanol (CAS 11	1-76-2)	Can be absorbed though the skin.			
US.Minnesota Hazardous S	ubstances List (Minn. Rules 5206.0400).				
Components		Exposure			
2-Butoxyethanol (CAS 11	1-76-2)	Skin designation applies.			
US.NIOSH: Pocket Guide to	Chemical Hazards				
Component		Exposure			
2-Butoxyethanol (CAS 11	1-76-2)	Can be absorbed though the skin.			
US.OSHA Table Z-1 Limits for	or Air Contaminants (29 CFR 1910.100)				
Components		Exposure			
2-Butoxyethanol (CAS 11	1-76-2)	Can be absorbed though the skin.			
US.OSHA Table Z-1-A (29 C	FR 1910.100)				
Components		Exposure			
2-Butoxyethanol (CAS 11	1-76-2)	Can be absorbed though the skin.			
US.Rhode Island Hazardous	s Substances Right-to-Know Act (R.I. Gen	. Laws Section 28-21-1 et. seq.)			
Components		Exposure			
2-Butoxyethanol (CAS 11	1-76-2)	Can be absorbed though the skin.			
US.Tennesee. OELs Occupa	ational Exposure Limkits, Table Z1A				
Components		Exposure			
2-Butoxyethanol (CAS 11	1-76-2)	Can be absorbed though the skin.			
Appropriate engineering controls	Provide adequate ventilation and mir supply and eye wash facilities.	nimize the risk of inhalation of vapors and mists. Provide easy access to water			
Individual protection measures	, such as personal protective equipment				
Eye/face protection	If use of product risks exposure to co	ntact, 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	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ne measures, such as washing after handling the material and before eating, drinking, k clothing and protective equipment to remove contaminants.			

Section 9 - Physical and chemical properties

Appearance	Clear.
Physical state	Liquid.
Form	Liquid.
Color	Green.
Odor	Citrus.
Odor threshold	Not available.
pH	13.3
Melting point/freezing point	Not available.
Initial boinging point and	212 °F (100 °C)
boiling range	
Flash point	> 212.0 °F (> 100.0 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
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	1.03 ± 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	Not Available
Viscosity	< 10 cP
Viscosity Temperature	75 °F (23.9 °C)

Section 10 - Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable at normal conditions.
Possiblity of hazardous reactions	Hazardous polymerization does not occur.
Conditions to Avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide.

Section 11 - Toxicological information

Information on likely routes of expoundation May cause burns of the gastrointestinal tract if swallowed. Ingestion May cause burns of the gastrointestinal tract if swallowed. Inhalation Irritating to respiratory system. Skin contact Causes skin burns. Eye contact Causes serious eye damage. Symptoms related to the physical, chemical and toxicological characteristics Causes skin and eye burns. Causes respiratory tract irritation. Symptoms may be delayed.

Information on toxicological effects.

Acute toxicity	May cause burns.					
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
Sodium dimethylbenzenesu	lfonate (CAS 1300-72-7)	Acute	Dermal	LD50	Rabbit	>2000 mg/kg
		Acute	Oral	LD50	Rat	7200 mg/kg
Sodium Hydroxide (CAS 131	.0-73-2)	Acute	Oral	LD50	Rabbit	500 mg/kg
Sodium Silicate (CAS 1344-0)9-8)	Acute	Dermal	LD50	Rabbit	>4640 mg/kg
		Acute	Oral	LD50	Rat	1.1 g/kg
Skin corrosion/irritation	Causes skin burns.					
Serious eye damage/ eye irritation	Causes serious eye dam	nage.				
Respiratory sensitization	Not classified.					
Skin sensitization	Not classified.					
Germ cell mutagenicity	Not classified.					
IARC Monographs. Overall Evalu	ation of Carcinogenicity					
	Component			Result	Comment	
	2-Butoxyethanol (CAS	111-76-2)		3	Not classifiable as to	carcinogenicity to humans.
Reproductive toxicity	Not classified.					
Specific target organ toxicity - single exposure	Irritating to respiratory	system.				
Specific target organ toxicity - repeated exposure	Not classified.					
Aspiration hazard	Not classified.					
Chronic effects	2-Butoxy ethanol may b have not been observed		gh the skin in to	kic amounts if	f contact is repeated an	d prolonged. These effects
	Prolonged or repeated	exposure may cau	ise liver and kidn	ey damage. T	hese effects have not b	een observed in humans.
	Saat	tion 12 Ea		formati	an	

Section 12 - Ecological Information

The product contains a substance which is toxic to aquatic organisms.

ASTRO-CHEM Industrial Degreaser Cleaner Concentrate 1020

CETY DATA QUEET

		SAF	E1	TY DATA SHEET	
Component(s)					
	lbenzenesulfor	nate (CAS 25155-30-0)			
Aquatic					
Level	Туре	Code		Species	Test Results
Acute	Crustacea	EC50	C	Water flea (Ceriodaphnia dubia)	3.26-14.51 mg/l , 48 hrs.
	Fish	LC50)	Rainbow trout, donaldson trout	3.2-5.6 mg/l, 96 hrs.
				(Oncorhynchus mykiss)	
Nonylphenol, et	thoxylated (CA	S 9016-45-9)			
Aquatic					
Acute	Crustacea	EC50	C	Daphnia magna	65 mg/l, 48 hours
	Crustacea	EC50	C	Water flea (Daphnia magna)	12.2 mg/l, 48 hours
	Fish	LC50)	Bluegill (lepomis macrochirus)	1 - 1.8 mg/l 96 hours
Persistence and de	gradability	The product is expected to be	biod	egradable.	
Bioaccumulative p	otential	Not known.			
Partition coeff	icient n-octano	ol / water log (Kow)			
Component	s			Results	
2-Butoxyeth	hanol (CAS 111-	-76-2)		0.83	
4-Nonylphe	nol, branched,	ethoxylated (CAS 127087-87-0)		2.1 - 3.4 (Calculated)	
Sodium dod	lecylbenzenesu	Ilfonate (CAS 25155-30-0)		0.45	
Mobility in soil		Not available.			
, Mobility in general	l	The product is water soluble a	nd m	ay spread in water systems.	
Other adverse effe	cts	None known.			
		Section 1	3 -	Disposal considerations	
Disposal instructio	ns	Dispose in accordance with an	nlica	ble federal, state, and local regulations.	
Local disposal regu		Dispose of in accordance with		-	
Hazardous waste o				the user based on the application for which	the product was used
Waste from residu		Dispose in accordance with all			The product was used.
products	cs / unuscu	Dispose in accordance with an	appi		
Contaminated pac	kaging	Since emptied containers may	reta	in product residue, follow label warnings even	en after container is emptied.
		Section	14	- Transport information	
от					
UN number					
Proper shipping	-	SODIUM HYDROXIDE SOLUTION	N		
Transport haza	rd class(es)	8			
Packing group					
Special precaut			nd en	nergency procedures before handling.	
Special provisio		B2, IB2, N34, T7, TP2			
Packaging exen	-	154			
Packaging non	bulk	202			
Packaging bulk		242			
ТА					
UN number		UN1824			
UN proper ship	ping name	SODIUM HYDROXIDE SOLUTION	N		
Transport haza	rd class(es)	8			
Packaging grou	р	II			
Environmental	hazards	No.			
ERG Code		8L			
Special precaut		Read safety instructions, SDS ar	nd en	nergency procedures before handling.	

1DG	
UN number	UN1824
UN proper shipping name	SODIUM HYDROXIDE SOLUTION
Transport hazard class(es)	8
Packaging group	II
Environmental hazards Marine pollutant	No.
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Other Information

IM

This substance/mixture is not intended to be transported in bulk.

Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code

Section 15 - Regulatory Information

		Section	15 - Regulatory	mormatio	"	
US federal regulations			Chemical" as defined by the		ommunication Standard,	29 CFR 1910.1200.
	port Notification (40 CF					
• •	Regulated Substances (001-1050) Not listed.			
	bstance List (40 CFR 302	2.4	Door	I+		
Component			Resu			
-	hanol (CAS 111-76-2)		LISTE			
	Sodium dodecylbenzenesulfonate (CAS 25155-30			D		
Sodium Hyd	droxide (CAS 1310-73-2)		LISTE	D		
Superfund Amendmer	nts and Reauthorizatior	າ 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		Not listed.				
SARA 311/312 Hazard	lous chemical	Yes				
SARA 313 (TRI reportir	ng)					
Chem	nical name			CAS #	% by wt.	
2-But	oxyethanol			111-76-2	5 - 10	
ther federal regulations						
Clean Air Act (CAA) See	ction 112 Hazardous Ai	r Pollutants (H	APs) List	Not regulat	ed.	
Clean Air Act (CAA) See	ction 112(r) Accidental	Release Preve	ntion (40 CFR 68.130)	Not regulat	ed.	
Safe Drinking Water A	ct (SDWA) Not re	gulated.				
Food and Drug Admini	istration (FDA) Not rep	gulated.				
S state regulations						
US.Massachusetts RTK	- Substance List		Components			
			2-Butoxyethanol (CAS 11	1-76-2)		
			Sodium dodecylbenzene		5155-30-0)	
			Sodium Hydroxide (CAS	-	,200 00 0,	
US New Jersey Worker	and Community Right-	to-Know Act	Components	1510 / 5 2)		
05.New Jersey Worker	and community Right-	to-know Act	2-Butoxyethanol (CAS 11	1-76-2)		
			Sodium dodecylbenzene		5155-30-0)	
			Sodium Hydroxide (CAS		,155 50 0)	
US.Pennsylvania RTK - I	Hazardous Substances			1310-73-2)		
US.Pellilsylvalla KTK - I	Hazaruous Substances		Components 2-Butoxyethanol (CAS 11	1-76-2)		
			Sodium dodecylbenzene	•		
					5155-30-0)	
			Sodium Hydroxide (CAS	1310-73-2)		
US.Rhode Island RTK			Components	1 7(2)		
			2-Butoxyethanol (CAS 11			
			Sodium dodecylbenzene	•	5155-30-0)	
			Sodium Hydroxide (CAS			
US - California Proposit	ion 65		California Safe Drinking V material is not known to reproductive toxins.			
ternational Inventories						
Country(s) or region	Inventor	•	foly style in the	(00)		On Inventory (yes/no)*
Australia		-	of Chemical Substances (Al	ics)		No
Canada		tic Substances				No
Canada			ances List (NDSL)	(1700-)		No
China -			Chemical Substances in Ch		(50) 500)	Yes
Europe	=		of Existing Commercial Che		(EINECS)	No
	Europe	an List of Noti	fed Chemical Substances (I	LINCS)		No
Europe	-		and Nam Charles I.C. I			Ne
Japan Korea	Invento		and New Chemical Substan	nces (ENCS)		No No

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	No

*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).

Section 16 - Other information, including date of preparation or last version

					· · · · · · · · · · · · · · · · · · ·	-	-	
Revision date	6/1/2023	3						
Version #	03							
HMIS Hazard Codes	Health	3	Flammability	0	Physical Hazard	0	PPE	В
Disclaimer	The information contained herein was obtained from current and reliable sources. However, the data is provided without an warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and dis this product are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of the conditions for use of the data is provided without are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of the data is provided without are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of the data is provided without and the data is provided without and the data is provided without an area of the data is provided without area of the data is provided witho							

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.