

# SAFETY DATA SHEET

SECTION – 1			Foaming Degr	easer		Revision Date	
	CHEMICAL PRODUCT A	AND COMPANY IDENTI	FICATION				
	Foaming Degreaser					ITEM	
RODUCT USE	Butyl Based Foaming I	Degreaser					
OMPANY NAME	Stars & Stripes Chemic	cal Co	Office	(855) 850-91	18		
	1440 LeMay, Suite 104	1	Fax				
	Carrollton T	X 75007	Web				
	EMERGENCY TELEPH	HONE NUMBER	CHEMTRE	C (800) 424-93	00		
ECTION – 2	HAZARDS INFORMATIO	N					
	CORROSIVE TO METALS-Cate	0,					
	EYES-Category 1; SKIN-Category ACUTE-Aquatic Toxicity-Category			3			
,	· · · · · · · · · · · · · · · · · · ·	piratory Tract Irritant	kicity-Category 5			∧ Corrosi	ve to Metals
						Eye Da	
	$\sim$					Skin Co	prrosion/Burns
Danger	May be corrosive to met	als				•	
	Causes severe skin bur		Mav cause mi	ld respiratory ir	ritation		
	May be harmful if swallo		-			st or vapor, Do no	t smoke,
	eat or drink while using,				goggles, rubber glove	s, and protective	clothing,
	Wash thoroughly after h	-	e into the env	rironment			
ECTION – 3	COMPOSITION INFORM	IATION	(Exa	ct percentage of the I	isted chemicals of composition	on has been withheld as a	trade secret)
HEMICAL NAME		MON NAME AND SYNO	<u>NYMS</u>	<u>CAS #</u>	IMPURITIE	<u>s</u>	PERCEN
odium Hydroxide		Caustic Soda		310-73-2	Water 50%		1 - 3
lonylphenol Ethox	cylate Pol	lyoxyethylene Nonyl Phenyl E	ther 12	27087-87-0	Poly(ethylene oxid Dinonylphenyl polyoxye	/ .	1 - 5
Glycol Ether EB	E	thylene Glycol Monobutyl Eth	er	111-76-2	2		1 - 5%
SECTION – 4	FIRST AID MEASURES						
EYE CONTACT		eves with cold water fo	or at least 15	minutes while l	ifting upper and lower	evelids Remove	contact
	Immediately flush e						oomuot
	Immediately flush e lenses if present ar	nd easy to do without			ie rinsing, Obtain imm	ediate medical at	
	lenses if present ar		injury to the e	eye and continu	e rinsing, Obtain imm	ediate medical at	
SKIN CONTACT	lenses if present ar preferably from an Immediately wash	nd easy to do without	injury to the e mergency Roo th a nonabras	eye and continu om ive soap and pl	lenty of water for at le	ast 15 minutes, R	ention, emove
	lenses if present an preferably from an Immediately wash contaminated shoe	nd easy to do without ophthalmologist or Er contaminated skin wit	injury to the e mergency Roo th a nonabras sh before reus	eye and continu om ive soap and pl se, lf irritation of	lenty of water for at le ccurs or persists obta	ast 15 minutes, R in medical attentic	ention, emove n
NHALATION	lenses if present an preferably from an Immediately wash contaminated shoe Move person to fre attention DO NOT INDUCE	nd easy to do without ophthalmologist or Er contaminated skin wit as or clothing and was	injury to the e mergency Roo th a nonabras h before reus oblem breathi is fully consci	eye and continu om live soap and pl se, If irritation of ing, show signs ious give one to	lenty of water for at le ccurs or persists obta of overexposure or fe o two glasses of water	ast 15 minutes, R in medical attentic eel unwell obtain r to dilute and obta	ention, emove n nedical
NHALATION	lenses if present an preferably from an Immediately wash contaminated shoe Move person to fre attention DO NOT INDUCE immediate medical	nd easy to do without ophthalmologist or Er contaminated skin wit es or clothing and was sh air, if they have pro VOMITING. If person	injury to the e mergency Roo th a nonabras h before reus oblem breathi is fully consci	eye and continu om live soap and pl se, If irritation of ing, show signs ious give one to	lenty of water for at le ccurs or persists obta of overexposure or fe o two glasses of water	ast 15 minutes, R in medical attentic eel unwell obtain r to dilute and obta	ention, emove n nedical
NHALATION NGESTION Aspiration Hazard	lenses if present an preferably from an Immediately wash contaminated shoe Move person to fre attention DO NOT INDUCE immediate medical	nd easy to do without ophthalmologist or Er contaminated skin wit es or clothing and was sh air, if they have pro VOMITING. If person I attention. If vomiting	injury to the e mergency Roo th a nonabras sh before reus oblem breathi is fully consci occurs, keep	eye and continu om live soap and pl se, If irritation of ing, show signs ious give one to	lenty of water for at le ccurs or persists obta of overexposure or fe o two glasses of water	ast 15 minutes, R in medical attentio eel unwell obtain r to dilute and obta	ention, emove n nedical
NHALATION NGESTION Aspiration Hazard ACI	lenses if present an preferably from an Immediately wash contaminated shoe Move person to fre attention DO NOT INDUCE immediate medical d Not applicable UTE SYMPTOMS OF SING	nd easy to do without ophthalmologist or Er contaminated skin wit es or clothing and was sh air, if they have pro VOMITING. If person I attention. If vomiting	injury to the e mergency Roo th a nonabras oblem breathi is fully consci occurs, keep	eye and continu om live soap and pl se, If irritation of ing, show signs ious give one to head below hip	lenty of water for at le ccurs or persists obta of overexposure or fe two glasses of water os to prevent aspiratio	ast 15 minutes, R in medical attentio eel unwell obtain r to dilute and obta n into the lungs	ention, emove n nedical
NHALATION NGESTION Aspiration Hazard ACL Eyes	lenses if present an preferably from an Immediately wash contaminated shoe Move person to fre attention DO NOT INDUCE immediate medical d Not applicable UTE SYMPTOMS OF SIMU Causes serious eye	nd easy to do without ophthalmologist or Er contaminated skin wit es or clothing and was sh air, if they have pro VOMITING. If person I attention. If vomiting GLE OVEREXPOSURE	injury to the e mergency Roo th a nonabras sh before reus oblem breathi is fully consci occurs, keep urning sensat	eye and continu om live soap and pl se, If irritation of ng, show signs lious give one to head below hip	lenty of water for at le ccurs or persists obta of overexposure or fe two glasses of water os to prevent aspiration sive burns, or possible	ast 15 minutes, R in medical attentio eel unwell obtain r to dilute and obta n into the lungs e eye damage	ention, emove n nedical
NHALATION NGESTION Aspiration Hazard Act Eyes Skin	lenses if present an preferably from an Immediately wash contaminated shoe Move person to fre attention DO NOT INDUCE immediate medical <b>d</b> Not applicable <b>UTE SYMPTOMS OF SIM</b> Causes serious eye Causes serious ski	nd easy to do without ophthalmologist or Er contaminated skin wit es or clothing and was sh air, if they have pro VOMITING. If person I attention. If vomiting <u>GLE OVEREXPOSURE</u> e irritation, redness, b	injury to the e mergency Roo th a nonabras sh before reus oblem breathi is fully consci occurs, keep urning sensat dness, burnin	eye and continu om live soap and pl se, If irritation of ng, show signs lious give one to head below hip	lenty of water for at le ccurs or persists obta of overexposure or fe two glasses of water os to prevent aspiration sive burns, or possible	ast 15 minutes, R in medical attentio eel unwell obtain r to dilute and obta n into the lungs e eye damage	ention, emove n nedical
NHALATION NGESTION Aspiration Hazard Action Eyes Skin nhalation	lenses if present an preferably from an Immediately wash contaminated shoe Move person to fre attention DO NOT INDUCE immediate medical <b>d</b> Not applicable <b>UTE SYMPTOMS OF SIM</b> Causes serious eye Causes serious eye Causes serious ski Mist or vapor can c	nd easy to do without ophthalmologist or Er contaminated skin wit es or clothing and was sh air, if they have pro VOMITING. If person I attention. If vomiting GLE OVEREXPOSURE e irritation, redness, b n irritation, itching, red	injury to the e mergency Roo th a nonabras sh before reus oblem breathi is fully consci occurs, keep urning sensat dness, burnin biratory tract	eye and continu om live soap and pl se, If irritation of ing, show signs ious give one to head below hip tion, pain, corro g, drying, crack	lenty of water for at le ccurs or persists obta of overexposure or fe o two glasses of water os to prevent aspiration sive burns, or possible cing, or possible corro	ast 15 minutes, R in medical attentio eel unwell obtain r to dilute and obta on into the lungs e eye damage sive burns	ention, emove in nedical iin
NHALATION NGESTION Aspiration Hazard Eyes Skin nhalation ngestion	lenses if present an preferably from an Immediately wash contaminated shoe Move person to fre attention DO NOT INDUCE immediate medical <b>d</b> Not applicable <b>UTE SYMPTOMS OF SIM</b> Causes serious eye Causes serious eye Causes serious ski Mist or vapor can c	nd easy to do without ophthalmologist or Er contaminated skin wit es or clothing and was sh air, if they have pro VOMITING. If person l attention. If vomiting <b>GLE OVEREXPOSURE</b> e irritation, redness, b n irritation, itching, red ause irritation, to resp wallowed, May cause	injury to the e mergency Rod th a nonabras oblem breathi is fully consci occurs, keep urning sensat dness, burnin piratory tract	eye and continu om live soap and pl ie, If irritation of ing, show signs ious give one to head below hip tion, pain, corro g, drying, crack	lenty of water for at le ccurs or persists obta of overexposure or fe o two glasses of water os to prevent aspiration sive burns, or possible cing, or possible corro	ast 15 minutes, R in medical attentio eel unwell obtain r to dilute and obta on into the lungs e eye damage sive burns	ention, emove in nedical iin
NHALATION NGESTION Aspiration Hazard Eyes Skin nhalation ngestion <u>CHRO</u>	lenses if present an preferably from an Immediately wash contaminated shoe Move person to fre attention DO NOT INDUCE immediate medical <b>d</b> Not applicable <b>UTE SYMPTOMS OF SING</b> Causes serious eye Causes serious eye Causes serious ski Mist or vapor can c May be harmful if s	nd easy to do without ophthalmologist or Er contaminated skin wit es or clothing and was sh air, if they have pro VOMITING. If person l attention. If vomiting <b>GLE OVEREXPOSURE</b> e irritation, redness, b n irritation, itching, red ause irritation, to resp wallowed, May cause	injury to the e mergency Roo th a nonabras oblem breathin is fully consci occurs, keep urning sensate dness, burnin piratory tract corrosive bur <b>ED OVEREXP</b>	eye and continu om live soap and pl se, If irritation of ing, show signs ious give one to head below hip tion, pain, corro g, drying, crack rns, of the mout <u>OSURE</u>	lenty of water for at le ccurs or persists obta of overexposure or fe o two glasses of water os to prevent aspiration sive burns, or possible ting, or possible corro	ast 15 minutes, R in medical attentio eel unwell obtain r to dilute and obta on into the lungs e eye damage sive burns	ention, emove in nedical iin
NHALATION NGESTION Aspiration Hazard Action	lenses if present an preferably from an Immediately wash contaminated shoe Move person to fre attention DO NOT INDUCE immediate medical <b>d</b> Not applicable <b>UTE</b> SYMPTOMS OF SIMU Causes serious ever Causes serious ski Mist or vapor can c May be harmful if s SMIC SYMPTOMS OF PRO	nd easy to do without ophthalmologist or Er contaminated skin wit es or clothing and was sh air, if they have pro VOMITING. If person l attention. If vomiting <b>GLE OVEREXPOSURE</b> e irritation, redness, b n irritation, redness, b n irritation, itching, red cause irritation, to resp wallowed, May cause <b>DLONGED OR REPEAT</b>	injury to the e mergency Roo th a nonabras oblem breathin is fully consci occurs, keep urning sensate dness, burnin biratory tract corrosive bur <b>ED OVEREXP</b> in, corrosive b	eye and continu om live soap and pl se, If irritation of ing, show signs ious give one to head below hip tion, pain, corro g, drying, crack rns, of the mout <u>OSURE</u> purns, or possib	lenty of water for at le ccurs or persists obta of overexposure or fe o two glasses of water os to prevent aspiration sive burns, or possible corro th, throat, esophagus	ast 15 minutes, R in medical attentio eel unwell obtain r to dilute and obta on into the lungs e eye damage sive burns , and gastrointesti	ention, emove n nedical nin
Eyes Skin nhalation ngestion	lenses if present an preferably from an Immediately wash contaminated shoe Move person to fre attention DO NOT INDUCE immediate medical <b>d</b> Not applicable <b>UTE SYMPTOMS OF SIM</b> Causes serious ski Mist or vapor can c May be harmful if s <b>SYMPTOMS OF PRO</b> Causes serious eve Causes serious eve	nd easy to do without ophthalmologist or Er contaminated skin wit as or clothing and was sh air, if they have pro VOMITING. If person l attention. If vomiting <b>GLE OVEREXPOSURE</b> e irritation, redness, b n irritation, redness, b n irritation, itching, red ause irritation, to resp wallowed, May cause <b>DLONGED OR REPEAT</b> e damage, severe pai	injury to the e mergency Rod th a nonabras oblem breathin is fully consci occurs, keep urning sensated dness, burnin biratory tract corrosive but <b>ED OVEREXP</b> in, corrosive b	eye and continu om live soap and pl ive soap and pl ing, show signs ious give one to head below hip tion, pain, corro g, drying, crack rns, of the mout <u>OSURE</u> purns, or possib ich may lead to	lenty of water for at le ccurs or persists obta of overexposure or fe o two glasses of water os to prevent aspiration sive burns, or possible ting, or possible corro th, throat, esophagus de corneal injury	ast 15 minutes, R in medical attentio eel unwell obtain r to dilute and obta on into the lungs e eye damage sive burns , and gastrointesti	ention, emove n nedical nin

Page 2 of 5		Foaming Degreaser	Revision Date 12/23/2015
SECTION – 5 FIRE	FIGHTING MEASURES		
Extinguishing Media	Not flammable: Use extinguishi	ing media for surrounding fire	
Hazardous Decomposit	-	ion can produce, sulfur oxides, aldehydes, s	odium oxides, ketones, and other
Reactive With	Reactive with, strong oxidizing	agents, strong acids, alkaline earth metals	
Explosion Hazards	Not applicable		
Static Discharge	Not applicable		
Mechanical Impact	Not applicable		
Protective Equipment	Use MSHA/NIOSH approved se	elf-contained breathing apparatus and full pr	rotective gear
SECTION – 6 ACCI	DENTAL RELEASE MEASURES		
Emergency Procedures	Warn personnel of spill, Stop s	spill or release only if it can be done safely	
Personal Precautions		ict, Keep unprotected personnel from enterir	ng the hazard area
Protective Equipment	Safety Glasses, Gloves, Chem		0
Containment	-	ocks or pads to prevent spill from spreading,	Prevent spill from entering the
Clean Up Procedures		n or mop and wringer to pick up spilled mate inert material, place in a chemical waste con	
Disposal	Dispose of material in accordant	nce with all State and Federal Guidelines ar	nd Regulations
SECTION – 7 HANI	DLING AND STORAGE		
Handling		materials, Use appropriate safety equipmen nandling, Avoid release to the environment,	
Storage	KEEP OUT OF REACH OF CH from incompatible materials, K	HILDREN, Keep container closed when not i feep from freezing	n use, Store in a cool dry place away
Incompatible Materials	Incompatible with, strong oxidiz	zing agents, strong acids, alkaline earth me	tals
SECTION – 8 EXPO	DSURE CONTROLS / PERSONAL PROT	ECTION	
EXPOSURE LIMITS			Significant
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL) OSHA PEL (TWA 8)	OSHA (CEIL) Exposure
Sodium Hydroxide	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup> EI,SI
Nonylphenol Ethoxylate	None Established	50 (010 /	
Glycol Ether EB	20 ppm	50 ppm (240 mg/n	n³) SA
PERSONAL PROTECTIV		$\sim$	•
Chemical Safety Glasses, Goggles or Face Shield	Impervious . Chemical Gloves	Impervious Protective Clothing	. Eye Wash (Recommended)
use a MSHA	mits listed above are exceeded, or irri / NIOSH approved respirator	itation is experienced,	HMIS HAZARD RATINGSHealth3Flammability0Reactivity0Personal ProtectionC
General Vent If exposure li use a MSHA	mits listed above are exceeded, or irri / NIOSH approved respirator SICAL AND CHEMICAL PROPERTIES		Health3Flammability0Reactivity0Personal ProtectionC
General Vent If exposure li use a MSHA	mits listed above are exceeded, or irri / NIOSH approved respirator	Specific Gravity / Density	Health 3 Flammability 0 Reactivity 0
General Vent If exposure li use a MSHA SECTION – 9 PHYS Flash Point Flammable Limits	mits listed above are exceeded, or irri / NIOSH approved respirator SICAL AND CHEMICAL PROPERTIES > 93.3°C (200°F) - TAG Closed Cup		Health 3 Flammability 0 Reactivity 0 Personal Protection C 1.055
General Vent If exposure li use a MSHA SECTION – 9 PHYS Flash Point Flammable Limits	mits listed above are exceeded, or irri / NIOSH approved respirator SICAL AND CHEMICAL PROPERTIES > 93.3°C (200°F) - TAG Closed Cup ND	Specific Gravity / Density pH (± 0.3) Viscosity Freeze Point	Health 3 Flammability 0 Reactivity 0 Personal Protection C 1.055 12.5
General Vent If exposure li use a MSHA SECTION – 9 PHYS Flash Point Flammable Limits Auto-Ignition Temp.	mits listed above are exceeded, or irri / NIOSH approved respirator SICAL AND CHEMICAL PROPERTIES > 93.3°C (200°F) - TAG Closed Cup ND ND	Specific Gravity / Density pH (± 0.3) Viscosity	Health 3 Flammability 0 Reactivity 0 Personal Protection C 1.055 12.5 ND
General Vent If exposure li use a MSHA SECTION – 9 PHYS Flash Point Flammable Limits Auto-Ignition Temp. Physical State	mits listed above are exceeded, or irri / NIOSH approved respirator SICAL AND CHEMICAL PROPERTIES > 93.3°C (200°F) - TAG Closed Cup ND ND Liquid Clear Mild	Specific Gravity / Density pH (± 0.3) Viscosity Freeze Point Boiling Point Vapor Density (air=1)	Health         3           Flammability         0           Reactivity         0           Personal Protection         C             1.055           12.5           ND           ~ 0°C (32°F)           ~ 100°C (212°F)           ND
General Vent If exposure li use a MSHA SECTION – 9 PHYS Flash Point Flammable Limits Auto-Ignition Temp. Physical State Appearance	mits listed above are exceeded, or irri / NIOSH approved respirator SICAL AND CHEMICAL PROPERTIES > 93.3°C (200°F) - TAG Closed Cup ND ND Liquid Clear Mild ND	Specific Gravity / Density pH (± 0.3) Viscosity Freeze Point Boiling Point Vapor Density (air=1) Vapor Pressure (mm Hg)	Health 3 Flammability 0 Reactivity 0 Personal Protection C 1.055 12.5 ND ~ 0°C (32°F) ~ 100°C (212°F) ND ND ND
General Vent If exposure li use a MSHA SECTION – 9 PHYS Flash Point Flammable Limits Auto-Ignition Temp. Physical State Appearance Odor Odor Threshold Solubility	mits listed above are exceeded, or irri / NIOSH approved respirator SICAL AND CHEMICAL PROPERTIES > 93.3°C (200°F) - TAG Closed Cup ND ND Liquid Clear Mild ND 100%	Specific Gravity / Density pH (± 0.3) Viscosity Freeze Point Boiling Point Vapor Density (air=1) Vapor Pressure (mm Hg) Evaporation Rate (nBuAc=1)	Health         3           Flammability         0           Reactivity         0           Personal Protection         C             1.055           12.5           ND           ~ 0°C (32°F)           ~ 100°C (212°F)           ND
General Vent If exposure li use a MSHA SECTION – 9 PHYS Flash Point Flammable Limits Auto-Ignition Temp. Physical State Appearance Odor Odor Threshold Solubility Volatiles	mits listed above are exceeded, or irri / NIOSH approved respirator SICAL AND CHEMICAL PROPERTIES > 93.3°C (200°F) - TAG Closed Cup ND ND Liquid Clear Mild ND 100% < 89%	Specific Gravity / Density pH (± 0.3) Viscosity Freeze Point Boiling Point Vapor Density (air=1) Vapor Pressure (mm Hg) Evaporation Rate (nBuAc=1) Partition Coefficient	Health         3           Flammability         0           Reactivity         0           Personal Protection         C             1.055           12.5           ND           ~ 0°C (32°F)           ~ 100°C (212°F)           ND           ND
General Vent If exposure li use a MSHA SECTION – 9 PHYS Flash Point Flammable Limits Auto-Ignition Temp. Physical State Appearance Odor Odor Threshold Solubility	mits listed above are exceeded, or irri / NIOSH approved respirator SICAL AND CHEMICAL PROPERTIES > 93.3°C (200°F) - TAG Closed Cup ND ND Liquid Clear Mild ND 100%	Specific Gravity / Density pH (± 0.3) Viscosity Freeze Point Boiling Point Vapor Density (air=1) Vapor Pressure (mm Hg) Evaporation Rate (nBuAc=1)	Health     3       Flammability     0       Reactivity     0       Personal Protection     C         1.055       12.5       ND       ~ 0°C (32°F)       ~ 100°C (212°F)       ND

Page 3 of 5			Foaming Degreaser		Rev	vision Date	12/23/2015			
SECTION - 10 STABIL	ITY AND REACTIV	ΊΤΥ								
Reactivity (Specific Test Data)	No specific te	st data related to i	eactivity available for	this product or in	ts ingredients					
Chemical Stability	Stable when s	Stable when stored above 4.4°C (40°F) and below 49°C (120°F)								
Hazardous Polymerization	Will not occur									
Conditions To Avoid	Incompatible	ncompatible materials								
Incompatible Materials	-	ncompatible with, strong oxidizing agents, strong reducing agents, strong acids, alkaline earth metals								
Thermal Decomposition	Burning or the	-	on can produce, sulfu		-					
SECTION - 11 TOXICO		MATION								
ROUTES OF EXPOSURE										
Eyes (Yes), Skin (Yes), In	gestion (Yes), Inf	nalation (Yes "Mist	t or Vapors")							
ACUTE SYM	PTOMS OF SINGL		E							
Eyes Cau	ses serious eye ir	ritation, redness,	– burning sensation, pai	n, corrosive bur	ns, or possible eye	damage				
	-		edness, burning, dryin			-				
		se irritation, to res		с, с, т						
	-		e corrosive burns, of t	he mouth, throat	t, esophagus, and g	astrointestir	al tract			
			TED OVEREXPOSURE							
			ain, corrosive burns, o	r possible corne	al injury					
	-	-	of the skin which may	-		osive burns				
			n, to mucus membran		-					
Ingestion May	be harmful if swa	allowed, Causes c	orrosive burns, of the ms may include, naus	mouth, throat, e	sophagus, stomach		intestinal			
Acute Tox Calculated	Oral:	4,499 mg/kg	Dermal:	15,190 mg/kg	Inhaled:	24.4 m	g/L			
Acute Tox Category Not	applicable (Oral >2,	,000 mg/kg), Not app	olicable (Dermal > 5000 r	ng/kg), Not applic	able (Inhaled >12.5 m	g/L) Dust or N	list			
Additional Info										
Target Organs Bloc	od, Kidneys, Liver	r, Mucous Membra	anes, Respiratory Trac	t, Eyes (Lens or	<sup>-</sup> cornea), Skin					
Medical Conditions Pre	existing, eye, skir	n, liver, kidney, blo	od, respiratory, disord	ers may be agg	ravated by exposure	e to this proc	luct			
Notes to Physician In c	ase of ingestion,	gastric lavage with	n activated charcoal ca	an be used prom	nptly to prevent abso	orption				
CARCINOGENIC - This pro	oduct contains con	centrations above	0.1% of the following:							
CHEMICAL NAME	<u>NTP</u>	<u>AC0</u>	<u>SIH</u>	IARC	GH	IS Category				
None Listed	NA	NA		NA	NA					
MUTAGENIC AND REPROD	DUCTIVE EFFECTS	<u>6 – This product co</u>	ntains concentrations a	above 0.1% of the	e following:					
CHEMICAL NAME	<u>Germ Cell Muta</u>	genicity		Toxic to Repr	oduction					
None Listed	NA			NA						
COMPONENTS ACUTE TO	KICITY									
CHEMICAL NAME	<u>Type</u>	<u>Form</u>	Subject	Result Value	Exposure Time	GHS C	ategory			
Sodium Hydroxide	LD50	Oral	Rabbit	400 mg/kg		4 (>300, ≤2	000 mg/kg)			
	LD50	Dermal	Rabbit	> 2,000 mg/kg			) mg/kg)			
Nonylphenol Ethoxylate	LD50	Oral	Rat	960 mg/kg	( Llauna ( Miat)	4 (>300, ≤2				
	LD50 LD50	Inhaled Dermal	Rat Rabbit	1.15 mg/L 2,001 mg/kg	4 Hours (Mist)	4 (>1.0, : (>2000	≤5 mg/L) ) mg/kg)			
Glycol Ether EB	LD50	Oral	Rat	1,746 mg/kg		( <i>&gt;</i> 2000 4 (>300, ≤2				
, -	LD50	Dermal	Rat	2,270 mg/kg			) mg/kg)			
	LC50	Inhaled	Rat	5.92 mg/L	4 Hours (Mist)	(>5	mg/L)			
SECTION – 12 ECOLO	GICAL INFORMAT	ION								
CHEMICAL NAME	<u>Type</u>	<u>Subject</u>	Subject Latin	<u>Result Va</u>	lue Exposure Time	<u>GHS</u>	<b>Category</b>			
Sodium Hydroxide	LC50	Bluegill	(Lepomis macrochirus)	99 m	ig/L 48 Hours	3 (>10,	≤100 mg/L)			
	LC50	•	(Crangon crangon)	30 m	-	· · ·	≤100 mg/L)			
<b></b>	LC50	•	(Gambusia affinis)	125 m	•		00 mg/L)			
Nonylphenol Ethoxylate	LC50		(Pimephales promelas)	3.8 m	0		≤10 mg/L)			
Glycol Ether EB	LC50 EC50		(Daphnia magna) (Daphnia magna)	9.3 m 1,815 m	•		≤10 mg/L) 00 mg/L)			
	LC50		(Lepomis macrochirus)	220 m	0		00 mg/L)			
Presistence And Degradat	<b>bility</b> This prod	duct is inherently l	biodegradable accordi s, only loss by absorp	ng to the OECD	definition, There is	no degrada	0,			
Bioaccumulative Potential		•	iggest bioaccumulation	-						
Mobility In Soil		terial is a partially								
Other Adverse Effects			long lasting effects							

#### SECTION - 13 **DISPOSAL CONSIDERATIONS**

## DO NOT DUMP INTO ANY STORM SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

#### **ENVIRONMENTAL FATE**

Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste.

CONTAINER DISPOSAL - Triple rinse empty container then offer for recycling. If not available, puncture and dispose in a sanitary landfill.

SECTION – 14	TRANSPORT I	TRANSPORT INFORMATION								
DOT CLASSIFICATION										
<u>UN Number</u>		ļ	Proper Shipping Name n.o.s. (	<u>Chemicals ) o</u>	or "Limits"					
Ltd Qty			"Limited Quantity" "Inner	<sup>.</sup> packaging r	not over 5.0 Liters	(1.3 gallons)"				
Hazard Class	Packing Group	Label Codes	Reportable Quantity (lbs)	<u>Response</u>	Marine Pollutant	Hazard Label	<u>Secondary</u>			
None	None	None	None	154	No					
Additional Info	Shipping information	tion for (Pints Quarts	and Gallons)							

Shipping information for: (Pints, Quarts and Gallons) itional Info:

SECTION – 15 REGULATORY	INFORMATIO	N											
TSCA													
CHEMICAL NAME	Sec 8(b) li	nventory	Se	ec 8(d)	Health A	nd Safety	S	ec 4(a) Chen	nical Test R	ules	Sec 12(b	) Expoi	t Notification
Sodium Hydroxide	Ye	s											
Glycol Ether EB	Ye	s			Yes								
REPORTABLE QUANTITIES	E	xtremely	Hazardous	5		Reportable	Quantity	Emission	Reporting				
CHEMICAL NAME	EPCRA TPC	Sec 302	EPCRA	RQ Se	c 304	CERCLA R	Q Sec 103	TRI S	ec 313	RC	RA Code	RM	P TQ Sec 112r
Sodium Hydroxide						100	00						
Glycol Ethers								Y	es				
SARA	Sec	tion 31	1				Sect	on 311 / 3	12 Hazard	s			
CHEMICAL NAME	Hazardo	ous Che	emical		Acute		Chronic	Fla	mmable		Pressure		Reactive
Sodium Hydroxide		Yes			Yes								
Nonylphenol Ethoxylate		Yes			Yes								
Glycol Ether EB		Yes			Yes		Yes		Yes				
RIGHT TO KNOW						STATE	E						
CHEMICAL NAME	CA	СТ	FL	IL	LA	NJ	NY	PA	МІ	MN	MA	RI	WI
Sodium Hydroxide						Yes		Yes			Yes		
Nonylphenol Ethoxylate						Yes		Yes					
Glycol Ether EB						Yes		Yes			Yes		
CALIFORNIA			WARNIN	NG! Th	nis pro	duct conta	ains cher	nicals kno	wn to the	state	of Californ	ia to c	ause:
CHEMICAL NAME	CAS #		Birth De	efects		Reprodu	ctive Ha	rm	Carcino	gen	D	evelo	pmental
None Listed													
CLEAN AIR WATER ACTS			Clean	Air Ac	cts				С	lean W	ater Acts		
CHEMICAL NAME	CAS #		HAP		Ozoi	ne Class 1	Ozo	ne Class 2	2 н	S	PP		TP
None Listed													
INTERNATIONAL REGULATIONS	<ul> <li>The comport</li> </ul>	nents of	this produ	ict are	listed	on the cher	mical inve	entories of t	he followir	ng coui	ntries:		
CHEMICAL NAME	Austra	lia	Ca	nada	E	Europe (Ell	NECS)	Japa	n	K	orea		UK
Sodium Hydroxide	Yes	;	Y	′es		Yes		Yes		Υ	′es		Yes
Glycol Ether EB	Yes	;	Y	′es		Yes		Yes		Y	′es		Yes
WHMIS Classification													
CHEMICAL NAME		DSL	Class	Desc	criptior	۱							
Sodium Hydroxide		Yes	Е	Corr	osive	Material							
Sodium Hydroxide, Glycol Ether E	B	Yes	D-2B	Mate	erials (	Causing C	other To:	kic Effects	; Toxic M	ateria	l		

Page 5 of 5		ing Degrea	aser	Revision Date 12				
SECTIC	ON – 16 OTHER INFORMATION							
SDS	LEGEND DESCRIPTION							
ACGIH	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a give	n species in a given tir	ne			
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species					
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit	, , , , , , , , , , , , , , , , , , , ,				
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage					
CI	Cochlear Impairment	NA	Not Applicable					
CNS	Central Nervous System	ND	Not Determined					
EC50	Concentration of a chemical that gives half-maximal response	NFPA	National Fire Protection Association					
EPA	Environmental Protection Agency	NIOSH	National Institute for Occupational Safety and	Health				
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NE	Not Established					
FBG	Full Bunker Gear	NTP	National Toxicology Program					
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration	n				
HAP	California Hazardous air pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)					
HMIS-A	Safety Glasses	PNS	Peripheral Nervous System					
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean V	Vater Act				
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)					
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract					
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption	tion) (SS = Sensitizer)				
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization	Act				
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)					
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given s	pecies in a given time				
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species					
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)					
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Wa	ater Act				
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act					
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours)					
KD	Kidney Damage (nephropathy)	UEL	Upper Explosive Limit					

## Stars & Stripes Chemical Co

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