



## MATERIAL SAFETY DATA SHEET

SECTION 1	- CHEMICAL	PRODUCT AN	D COM	IPANY IDENTIFI	CATION		
Company Ac							
5301 Keystor							
	dows, IL 60008			Б		4.0200	
Tel: 1-847-2				Emergency:	(CHEMTREC) 800-42	4-9300	
Fax: 1-847-2			• • •	Revision Date:	April 25, 2013		
	ne: Stabilized NPE	(n-Propyl Broi	mide)				
CAS No: 100 Chamical Fac	o-94-5 mily: Halogenated	l hudroaarhona					
	Specialty cleanin	•					
	· ·	*	ATION	ON INGRREDIE	ITS		
	Chemical Name CAS #			Wt. %	ACGIH	OSHA	
1-Bromopropane		106-94-5		94	10 ppm	25 ppm*	
t-Butanol		75-65-0		<1	100 ppm	100 ppm	
1,2-Butylene oxide		106-88-7		<1	/	/	
· •		71-23-8		>4	200 ppm	200 ppm	
	1	ded an 8-hour T	WA of 2	25 ppm for occupation	11		
	- HAZARDS II				•		
Emergency (	Overview:						
	Hazard Rating NPFA		IPFA	HMIS			
Health Hazard 2			1				
Fire Hazard 0			1				
Reactivity Hazard 0			0				
Personal Protection -			Н				
Potential Health Effects: Inhalation: High concentrations are irritating to the respiratory tract. May cause headache, dizziness, nausea vomiting narcosis							
Inhalation:	confined or poo			e respiratory tract.	lay cause neadache, dizzir	less, nausea vomiting narcosis in	
Eye:				av cause irritation ar	d nain		
Skin:	Contact or high vapor concentration may cause irritation and pain. Brief contact may cause slight irritation, prolonged contact may cause moderate irritation and dermatitis. This problem						
~~~~~	may be accentuated by liquid becoming trapped against the skin by contaminated clothing and shoes.						
Ingestion:	Swallowing of this material may result in irritation of the mouth and gastrointestinal tract, abdominal pain and						
	vomiting in addition to effects similar to those caused by inhalation.						
	– FIRST AID M						
Inhalation:	Remove victim to fresh air. Provide oxygen if breathing is difficult. Administer cardiac pulmonary resuscitation (CPR)						
Eye: Skin:	if victim is not breathing. Seek medical attention.						
	If Irritation persists, seek medical attention. Flush eyes with water for 15 minutes while holding eyelids open. If						
	irritation persists, seek medical attention.						
	Remove contaminated clothing. Wash effected area with plenty of soap and water. Launder contaminated clothing						
Ingestion:	before reuse. If irritation persists, seek medical attention. If victim is conscious, have him drink large amounts of water. DO NOT induce vomiting. DO NOT give anything by						
ingestion:		mouth to an unconscious person. Seek immediate medical attention.					
anartati							
SECTION 5	5 – FIRE FIGHT	ING MEASUR	ES				

Flash Point: None

Extinguishing Media: Material is not flammable.

Fire-Fighting Instruction: Special procedures are recommended.

Fire-Fighting Equipment: NIOSH-approved self-contained breathing apparatus in positive pressure mode.

Unusual Fire/Explosion Hazards: Product will decompose at temperatures above 400 ℃ releasing fumes of carbon monoxide, carbon dioxide, hydrogen bromide and/or bromine.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures: Evacuate the areas. Stop leak if this can be done without risk. Contain spills and cover with vermiculite or sand. SECTION 7 – HANDLING AND STORAGE

Handling Precautions: Keep container tightly closed when not in use. Protect from extreme temperatures. Isolate from incompatible materials. Do not store near food.

Other Precautions: Keep this chemical out of reach of children. Minimize body contact with this product. Avoid inhaling fumes or vapors.

### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Requirements:Use adequate mechanical or local exhaust ventilation to keep vapor and mist levels as low as possible.Respiratory Protection:At high levels of concentration, use self-contained breathing apparatus.



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Eye/Face:		gles or face shield. Contact lenses should not be worn when working						
Protostivo Classes	with this material.	litan & Nanfail macammandad Do not was not with a sta						
Protective Gloves: Protective Clothing:	Clean body-covering, apron and b	/iton & Norfoil recommended. Do not use natural rubber gloves.						
Work/Hygienic Practices:	hemical. Do not eat, drink or smoke until after work washing.							
Special/Other:	Provide a safety eye bath at work a	area. Provide a safety shower.						
	AND CHEMICAL PROPERTIES	3						
Physical State: Clear, colorle		Water Solubility: 2.5 g/l						
Appearance and Odor: Slight		Vapor Pressure 143 mmHg Relative Vapor Density: 4.3						
Boiling Point: 159 F. (70.9 C Freezing Point: -166 C.	<i></i> )	Iso-Propyl Bromide <100 ppm						
Evaporation Rate: Not Detern	mined	Decomposition Temp. $> 400$ °C.						
SECTION 10 - STABILITY	Y AND REACTIVITY							
Stability:	Stable.							
Conditions to Avoid:	Avoid temperatures above 400 °C.							
Hazardous Polymerization:	Will not occur.							
Incompatibility:		May attack certain plastics, rubber and coating. Thoroughly test for						
Products of Decomposition:	all applications before use. Carbon monoxide, carbon dioxide	, hydrogen bromide and/or bromine						
<u>`</u>								
SECTION 11 – TOXICOLOGICAL INFORMATION LD50 (Rat, Oral) N-Propyl bromide: 4260 mg/Kg, 1,2 Epoxybutane: 1180 mg/Kg, t-Butanol: 3500 mg/Kg,								
n-Propanol: 1870 mg/Kg								
LC50 (Rat Inhalation) N-Pro	opyl Bromide: 253000 mg/m3/0.5 hr							
SECTION 12 - ECOLOGI								
Environmental effects: The product should not be allowed to enter drains or water courses or be deposited where it can affect ground								
or surface waters. Important environmental cha	ractoristics. N/Av							
1	data available on the product itself.							
SECTION 13 – DISPOSAL								
Waste Disposal Method:	CONSIDERATIONS							
	ith Local, State and Federal regula	tions. Do not flush to sanitary sewer or waterway. Refer to RCRA						
regulations 40 CFR 260-281	for waste disposal instructions.							
SECTION 14 – TRANSPORT INFORMATION								
Hazardous Materials Descriptions and Proper Shipping Names								
(Vapor degreasing solvent, halogenated hydrocarbon mixture, n.o.s.)								
Hazard Class - Non-flammab Packing Group - III	ie liquid							
Label(s) Required - None								
Quantity Limitations- Not Re	gulated							
Classification number – 1499								
Marine and Air Transportation	n							
SECTION 15 - REGULAT								
	nponents are in full compliance with	the TSCA inventory.						
SARA Section 302, 304: None								
Section 311, 312: Acute								
Section 313 Toxic Chemical: This product contains 1,2 Eposybutane, t-Butanol and n-Propanol which are subject to reporting								
requirements of SARA Section 313, Title III.								
<b>RCRA:</b> For disposal of unused material check with local, state and federal environmental agencies.								
California Proposition 65: This product contains n-propyl bromide which is known to the state of California to cause reproductive								
SECTION 16 – OTHER INFORMATION Legend: N/Ap – Not Applicable N/Av – Not Available								
OSHA – Occupational Safety and Health Act Inh – Inhalation								
TLV – Threshold Limit Value TSCA – Toxic Substances Control Act								
DSL – Domestic Substances List NDSL – Non-Domestic Substances List								
ICAO – International Civil Aviation Organisation CFR – United States Code of Federal Regulations								
CEPA – Canadian Environmental Protection Act AIHA – American Industrial Hygiene Association								
IARC – International Agency for Research on Cancer NIOSH – National Institute for Occupational Safety and Health								
ACGIH – American Conference of Governmental Industrial Hygienists								
EPA – United States Environmental Protection Agency								
		lling Meadows, IL 60008						
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DOT – United States Department of Transportation

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act (EPA)

TDG - Canadian Transportation of Dangerous Goods Act and Regulations

References: ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure

Indices for 2001. International Agency for Research on Cancer Monographs, Supplement 7, 1988. Canadian Centre for

Occupational Health and Safety. CHEMINFO / RTECS database (2001-3) Material Safety Data Sheets from manufacturer.

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