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skin with water/ shower. Wash contaminated clothing before reuse.					
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position comfortable for a feel unwell. Remove contact lens POISON CENTER or					
or smoke when using this product. Use only outdoors or in a well-ventilated area. Weal protective gloves / eye protection / face protection. Avoid release to the environment. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor / physician. IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse					
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First Aid Measures	
General	Move victim to fresh air. Call 911 or emergency medical service. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Remove and isolate contaminated clothing and shoes. In case of contact with liquefied gas, thaw frosted parts with lukewarm water. In case of contact with substance, immediately flush skin or eyes with running wate for at least 20 minutes. Keep victim warm and quiet. Keep victim under observation. Effects of contact or inhalation may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call emergency medical care. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one- way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.
Eyes	Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses if present and easy to do - continue rinsing. Seek medical attention.
Skin	Remove and isolate contaminated clothing and shoes. In case of contact with liquefied gas, thaw frosted parts with lukewarm water. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep victim warm and quiet. Keep victim under observation.
Ingestion	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
	nptoms and effects, both acute and delayed
Overview	Contact with material will cause burns to skin, eyes and mucous membranes. Contact with rapidly expanding gas may cause burns or frostbite. Try to warm up the frozen tissues and seek medical attention. Repeated or prolonged skin contact may cause dermatitis and irritation. Serious effects may be delayed following exposure.
Indication of immediate medical attention and special treatment needed	Redness and watery eyes. Redness, irritation, blistering to skin. Stomach pains. Symptoms may be delayed.
Fire-fighting measure Recommended Extinguishing media	Ses Carbon dioxide, regular dry chemical.
Unsuitable extinguishing media	Direct water spray.
Special hazards arising from the substance or mixture	Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with lor lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Hydrogen and nitrogen at high temperature. Do not breathe mist / vapors / spray.
Advice for fire- fighters	Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Stop flow of gas if safe to do so. Move containers from fire area if this can be done without risk. Use wat spray to keep fire-exposed containers cool. Cylinders exposed to fire may vent and release toxic and/or corrosive gas through pressure relief devices. Containers may explode when heated. Ruptured cylinders may rocket. Vapors are extremely irritating and corrosive. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite. Fire will produce irritating, corrosive and/or toxic gases. Runoff from fire control may cause pollution.

	al Release N							
	Personal ecautions, protective	Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch or walk through spilled material. Stop leak if you can do it without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Prevent entry into waterways, sewers, basements						
	oment and	or confined areas. Do not direct water at spill or source of leak. Use water spray to reduce vapors or						
	mergency	divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Isolate area until gas						
•	rocedures	has dispersed.						
	ronmental recautions	Do not allow spills to enter drains or watercourses. Contact local authorities in case of spillage to drain/aguatic environment.						
Me	thods and	CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not						
	naterial for	available or no answer, refer to appropriate telephone number listed in Section 1. As an immediate						
	nment and leaning up				spill or leak area. Stop leak if safe to do so. Keep unauthorized Many gases are heavier than air and will spread along ground and			
0	cannig ap				(sewers, basements, tanks). Keep out of low areas. Ventilate close			
		spaces before						
landling	and storage							
anunnya	and storage		riate per	sonal pr	otective equipment. Contains gas under pressure. Do not get in eye			
		or on skin or c	lothing. [Do not b	reathe gas. Avoid release to the environment. Use only with adequa			
Preca	autions for				espirator when ventilation is inadequate. Do not enter storage areas			
	e handling	and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open						
	-				rce. Use only non-sparking tools. Empty containers retain product Do not puncture or incinerate container. Use equipment rated for			
					after each use and when empty.			
Con	ditions for	Contents under pressure. Protect containers from damage and temperatures exceeding 120 F.						
		Cylinders should be stored upright, with valve protection cap in place and firmly secured to prevent						
	e storage,			ored upr	ight, with valve protection cap in place and firmly secured to prevent			
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Physical and chemical properties	
Appearance:	Colorless Gas
Odor:	Pungent
Odor threshold:	Not Measured
pH:	11.6
Melting point / freezing point:	-77.7°C (-107.9°F)
Initial boiling point and boiling range:	-28.1 °F
Flash Point:	Not Applicable
Evaporation rate (Ether = 1):	Rapid @ Ambient Temperature
Flammability (solid, gas):	Not Applicable
Upper/lower flammability or explosive limits:	Lower Explosive Limit: Not Applicable
	Upper Explosive Limit: Not Applicable
Vapor pressure (mmHg):	2327 mmHg (@ 60 °F)
Vapor Density:	0.6
Specific Gravity:	0.62
Solubility in Water:	High
Partition coefficient n-octanol/water (Log Kow):	Not Measured
Auto-ignition temperature (°C):	651° C (1203.8 °F)
Decomposition temperature:	Not Measured
Viscosity (cSt):	Not Measured

10. Stability and reactivity

υ.	Stability and reactivit	У	
	Reactivity	Hazardous Polymerization will not occur.	
	Chemical stability	Stable under normal circumstances.	
	Possibility of	None.	
	hazardous reactions		
	Conditions to avoid	No data available	
	Incompatible materials	Strong acids, hypochlorites, oxidizing gases, bromine, chlorine, fluorine, halogens, calcium, iodine, gold, silver, copper, zinc, mercury.	
	Hazardous	Hydrogen and nitrogen at high temperature	
	decomposition		
	products		

11. Toxicological information Acute toxicity

Ingredient	Oral LD50,	Skin LD50,	Inhalation Vapor	Inhalation Dust/Mist	Inhalation Gas
	mg/kg	mg/kg	LD50, mg/L/4hr	LC50, mg/L/4hr	LC50, ppm/1hr
Ammonia - (7664-41-7)	350.00, Rat	4,840.00, Rat	No data available	2,000.00, Rat	7,338.00, Rat

POTENTIAL HEALTH EFFECTS:

formation on likely routes of exposure							
Eye contact: Causes serious eye damage. Liquid exposure may cause frostbite.							
Skin contact:	Causes skin burns. Liquid exposure may cause frostbite.						
Inhalation:	Toxic if inhaled.						
Ingestion:	Causes digestive tract burns.						
Signs and symptoms of exposure:	Contact with this material will cause burns to the skin, eyes and mucous membranes. Cough, shortness of breath, headache, nausea, vomiting. May cause lung damage. Unconsciousness.						

	Toxicological information								
	Acute toxicity (Cont.)								
	Information on toxicological								
	Acute	e toxicity:	Toxic if inhaled.	anamata Lifa an Llaalth, 200 mm	_				
	Caroin	aonioitu	-	ngerous to Life or Health: 300 ppn o be a carcinogen by IARC, ACG					
	Reproductive	ogenicity:	No data available	.	IA, NTE OLOSHA.				
	Specific target organ		Not available.	₽.					
	toxicity (single e	xposure):							
	Specific target organ Toxicity (repeated e	xposure):	Not available.						
	Aspiratio	n hazard:	Due to the physic	cal form of the product it is not an	aspiration hazard.				
12.	Ecological information Toxicity Very toxic to aquatic life. Toxic to	o aquatic lif	e with long lasting Aquatic Ecoto	pxicity					
	Ingredient	LC50/9	96hr fish, mg/l	EC50/48hr crustacea, mg/l	EC50 algae, mg/l				
	Ammonia - (7664-41-7)		0.083	0.53	29.20				
	L	Oncorhyr	nchus gorbuscha	Daphnia magna	Ulva fasciata				
		alak !!!!	Thereis and the	available as the way of the t	6				
	Persistence and degra	-		available on the preparation itsel	Τ.				
	Bioaccumulative p		Not Measured						
		y in soil:	No data available						
	Results of PBT a	essment:	This product con	tains no PBT/vPvB chemicals.					
	Other adverse	effects:	No data available	е.					
13.	Disposal considerations Waste treatment	methods:	Do not allow into	drains or water courses. Wastes	and emptied containers				
			should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet, advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.						
	Waste from	material:	The waste determination should be made in discussion between the user and the waste disposal company.						
	Container Man	agement:	Return empty cylinders, tankcars and cargo tanks containing residual gas and/or liquid to supplier in compliance with applicable DOT regulations.						
14.	Transport information								
		number:	UN1005						
	UN proper shippi	ng name:	Ammonia, anhydrous						
	Transport hazard class(es)		-						
	DOT (Domestic Surface Trans	sportation							
	DOT Proper Shippir		Ammonia, anhyo	Irous					
	DOT Haza DO	rd Class)T Label:	2.2 2.2						
	UN / NA	Number:	UN1005						
	DOT Packin	g Group:	Not Applicable						
	CERCLA/	-	19 gal. / 100 lbs.						
	Environmental	hazards:	-	llutant: Yes (Ammonia)					
	Special precautions	for user:	Not Applicable	· /					
	• • •								

Regul	atory inf	ormation									
Regi	ulatory C	verview:	are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory. D2B E								
	Class	WHMIS ification:									
OSH		LATORY STATUS:	This material is of CFR 1910.1200)		d hazardou	s by the OSHA	AHazard	l Commur	nication	Standard	l (29
	US E	PA Tier II		No	Immediate (Acute):		Yes				
		Hazards:	Sudden Release of Pressure:			Yes	Delayed (Chronic):		No		
				F	Reactive:	No					
S	ARA 302	Extremely	Hazardous Subst	ance / R	Qs (Ibs) :	Yes (100-lbs)					
	SAI	RA 311/312	Chemicals and R	Qs (lbs)	(>0.1%) :	Yes (100-lbs)				
				SARA	313 (TRI)	Yes					
			OSHA PSM	(29 cfr 19	910.119):	Yes (10,000-lbs)					
TSCA: Ammonia											
State Regu	lations:	N.J. RTK	Substances (>1%)	Listed	Penn R1	K Substances	(>1%)	Listed		fornia op 65	Not listed

16. Other information

Revision Information: This is the first revision of this SDS format, changes from previous revision not applicable.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

THE USER IS CAUTIONED TO PERFORM HIS OWN HAZARD EVALUATION AND TO RELY ON HIS OWN DETERMINATIONS.