VOLU-SOL

SECTION 1: PROD	DUCT AND COMPANY IDENTIFICATION	
PRODUCT NAME:	Formalin Concentrate Buffered	
SYNONYMS:	Buffered Formalin Concentrate 5	
CATALOG CODES:	VFC	
MANUFACTURER:	Volu-Sol	
ADDRESS:	5095 West 2100 South	
	Salt Lake City, UT 84120	
EMERGENCY PHONE:	(800) 525 5052	
OTHER CALLS:	(800) 535-5053 (801) 974-9474	
FAX:	(801) 974-9474 (801) 974-9553	
CHEMICAL FAMILY: CHEMICAL FORMULA:	-	
PREPARED BY:	- Volu-Sol	
RECOMMENDED USE: Laboratory	/ chemical	10
		HMIS Cla He
RESTRICTIONS ON USE: Use	as recommended	Ch
SECTION	2: HAZARD(S) IDENTIFICATION	Ph
		NFPA Ra He
EMERGENCY OVERVIEW: GHS Classification:	Flammable Liquids (Category 4)	Fir
	Acute Toxicity, Oral (Category 3)	Re
	Acute Toxicity, Inhalation (Category 3)	6 D <u>. (</u>
	Acute Toxicity, Dermal (Category 3)	
	Skin corrosion (Category 1B)	$\mathbf{G} \leftarrow \mathbf{N}$
	Serious eye damage (Category 1)	
	Skin sensitisation (Category 1)	
	Germ cell mutagenicity (Category 2)	
	Carcinogenicity (Category 1A)	
	Acute aquatic toxicity (Category 3)	
	Specific target organ toxicity (Category 1)	
GHS LABEL ELEMENTS:	Single Exposure	
Pictogram:	\vee \vee \vee \vee	
Signal Word:	Danger	
Hazard Statement(s):	Constructible figured	
H227 H301+H311+H331	Combustible liquid Toxic if swallowed, in contact with skin or if inhaled	INULALAT
H314	Causes severe skin burns and eye damage	INHALAT is difficul
H317	May cause an allergic skin reaction	is anneu
H318	Causes serious eye damage	INGESTIC
H341	Suspected of causing genetic defects	vomiting
H350	May cause cancer	anything
H370	Causes damage to organs	physiciar
H402	Harmful to aquatic life	, ,
Precautionary Statement(s		SKIN: Ta
P201 P202	Obtain special instructions before use Do not handle until all safety precautions have	plenty of
	been read and understood	EYE: Cor
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking	water for
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/	
P264	spray Wash skin thoroughly after handling	
P264 P270	Do not eat, drink or smoke when using this product	FLAMMA
P270 P271	Use only outdoors or in a well-ventilated area	
P272	Contaminated work clothing should not be allowed	
	out of the workplace	FLASH PO
P273	Avoid release to the environment	
P280	Wear protective gloves/ eye protection/ face protection	AUTOIGI
P301+P310+P330	IF SWALLOWED: Immediately call a POISON	EXTINGU
	CENTER or doctor/physician. Rinse mouth	dioxide
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce	uloxide
	vomiting	FIRE FIG
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately	NIOSH-a
	all contaminated clothing. Rinse skin with	pressure
	water/shower	
P304+P340+P310	IF INHALED: Remove person to fresh air and keep	FIRE AND
	comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician	

POISON CENTER or doctor/ physician

P305+P351+P338+P310	IF IN EYES: Rinse cautiously with water for several
1505115511155011510	minutes. Remove contact lenses, if present and
	easy to do. Continue rinsing. Immediately call a
	POISON CENTER or doctor/physician
P307+P311	IF exposed: Call a POISON CENTER or doctor/
	physician
P333+P313	If skin irritation or rash occurs: Get medical advice/
	attention
P362	Take off contaminated clothing and wash before
	reuse
P370+P378	In case of fire: Use dry sand, dry chemical or
	alcohol-resistant foam for extinction
P403+P233	Store in a well-ventilated place. Keep container
	tightly closed
P403+P235	Store in a well-ventilated place. Keep cool
P405	Store locked up
P501	Dispose of contents/container to an approved
	waste disposal plant
OTHER HAZARDS: -	
IMIS Classification:	
Health hazard:	3
Chronic health hazard:	-
Flammability:	2
Physical hazards:	0
NFPA Rating: Health hazard:	3
Fire:	2
Reactivity Hazard:	2
Reactivity Hazaru.	
SECTION 3: COMPOSIT	ION/INFORMATION ON INGREDIENTS
	,

INGREDIENT	CAS NO. EC-NO.
	Index-NO.
100 C	50-00-0
Formaldehyde (30-50%)	200-001-8
	605-001-00-5
5.5.2.5	67-56-1
Methanol (10-20%)	200-659-6
	603-001-00-X

SECTION 4: FIRST AID MEASURES

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician

INGESTION: If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

SKIN: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician

EYE: Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

SECTION	5: FIRE-FIGHTING MEASURES
FLAMMABLE LIMITS IN AIR:	Percentage by Volume Upper: -% Lower: -%
FLASH POINT:	-
AUTOIGNITION TEMPERATURE:	-
EXTINGUISHING MEDIA: Use wate dioxide	er spray, alcohol-resistant foam, dry chemical or carbo
	the event of a fire, wear full protective clothing ar eathing apparatus with full face piece operated in the pressure mode

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Use personal protective equipment. Avoid breathing vapours, mist, or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Dispose of in accordance with local regulations. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The number to contact the US Coast Guard National Response Center is (800) 424-8802

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Containers of this material may be hazardous when empty since they retain product residues (vapours, liquid); observe all warnings and precautions listed for the product. Take measures to prevent the buildup of electrostatic charge. No smoking

INCOMPATIBILITES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

Reported in a time-weighted average (TWA)

Component	CAS-No.	Reference	09	бна	AC	GIH
component	CAS-NO.	Reference	ppm	mg/m ³	ppm	mg/m ³
Formaldehyde	50-00-0		.75		.3	
Formaluenyue	50-00-0		PEL		TLV	
Methanol	67-56-1		200	260	200	260
wethanol	07-30-1		PEL	PEL	TLV	TLV -

VENTILATION SYSTEM: Local and/or general exhaust is recommended to keep exposure below limits. Local exhaust ventilation is preferred for control of the emissions at its source, preventing dispersion into the general work area. Please refer to the ACGIH document, Industrial Ventilation: A Manual of Recommended Practices, for details

PERSONAL RESPIRATORS: If exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapour respirator may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier; whichever is lowest. A full-face piece organic vapour respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face, positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres

SKIN PROTECTION: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Use proper glove removal technique to avoid skin contact with this product. Wash and dry hands EYE PROTECTION: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and guick-drench facilities in work area

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: ODOR:	liquid, clear
SOLUBILITY: pH:	
BOILING POINT: MELTING POINT:	
VAPOR PRESSURE: SPECIFIC GRAVITY:	69 hPa (52 mmHg) at 37°C (99°F) -
MOLECULAR WEIGHT: DENSITY: VISCOSITY:	-
REFRACTIVE INDEX:	-
SECTION	N 10: STABILITY AND REACTIVITY
CHEMICAL STABILITY:	Stable under recommended conditions of use and storage
CONDITIONS TO AVOID:	Heat, flames, ignition sources
HAZARDOUS DECOMPOSITION	I OR BY-PRODUCTS: No data available

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Toxicity:	No data available
Skin/Eye Irritation:	Skin – Rabbit: Corrosive after 3 minutes to 1 hr – 20 hr
	Eyes – Rabbit: Corrosive 7 d
Carcinogenicity: IARC:	1-Group 1: Carcinogenetic to humans (Formaldehyde)
NTP:	Known to be human carcinogen (Formaldehyde)
OSHA:	OSHA specifically regulated carcinogen (Formaldehyde)
ROUTES OF ENTRY:	Inhalation/Ingestion/Skin

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life

Toxicity: No data available Persistence and degradability: No data available

Mobility in soil: No data available

PBT/vPvB Results: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dispose of as unused product

1.55	SECTIO	ON 14:	TRA	NSPORT INFORM	ATION	
		. 30	2	ΙΔΤΔ		IMDG

US DOT	ΙΑΤΑ	IMDG/IMO		
Shipping Name: Formaldehyde solutions	Shipping Name: Formaldehyde solutions	Shipping Name: FORMALDEHYDE SOLUTION		
Hazard Class:	Hazard Class:	Hazard Class:		
8	8	8		
UN Number:	UN Number:	UN Number:		
2209	2209	2209		
Packing Group:	Packing Group:	Packing Group:		
III	III	III		

SECTION 15: REGULATORY INFORMATION

	A MARK TO A
SARA 302	50-00-0
SARA 313	50-00-0, 67-56-1
SARA 311/312 Hazards	Fire hazard, Acute Health Hazard, Chronic Health Hazard
State	Right to know lists: MA: 50-00-0, 67-56-1 PA: 50-00-0, 67-56-1, 7732-18-5 NJ: 50-00-0, 67-56-1, 7732-18-5 California Prop. 65 Components: 50-00-0, 67-56-1

SECTION 16: OTHER INFORMATION

Disclaimer: The information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.