# VAL-U-RELEASE Safety Data Sheet

SECTION 1: Product and	l company identific	ation		
Product name	: VAL-U-RELEASE			
Use of the substance/mixture	: Release Agent			
Product code	: 0700			
Company	: VAL-U-CHEM			
	PO Box 82310 Phoenix, AZ 85071 - L	USA		
	T 602-957-2808			
Emergency number	: 602-957-2808			
SECTION 2: Hazards ide	ntification			
2.1. Classification of the sub	stance or mixture			
GHS-US classification				
Met. Corr. 1 H290				
Skin Irrit. 2 H315 Eye Dam. 1 H318				
Carc. 2 H351				
2.2. Label elements				
GHS-US labeling				
Hazard pictograms (GHS-US)	:			
Signal word (GHS-US)	: Dang	GHS05 GHS08 ger		
Hazard statements (GHS-US)	-	be corrosive to metals		
	Caus	ses skin irritation		
		ses serious eye damage bected of causing cancer		
Precautionary statements (GHS	Do no Keep Wash Wear If on s If in e and e If exp Imme Spec If skin Take Abso Store Store	easy to do. Continue rinsing posed or concerned: Get medical ediately call a doctor, a POISON ( cific treatment (see supplemental f n irritation occurs: Get medical ad off contaminated clothing and wa off spillage to prevent material-da e locked up.	ns have been read a ng, protective gloves. Id water. for several minutes. advice/attention. CENTER first aid instruction of lvice/attention. ash it before reuse. mage. vith a resistant inner	Remove contact lenses, if present n this label)
2.3. Other nazards No additional information availal	le			
2.4. Unknown acute toxicity	(GHS US)			
Not applicable				
SECTION 3: Compositio	n/Information on in	gredients		
3.1. Substances				
Not applicable				
Full text of H-phrases: see section	on 16			
3.2. Mixtures				
Name		Product identifier	%	GHS-US classification
tetrasodium ethylenediaminetetrac	itate	(CAS-No.) 64-02-8	1-5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

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Name	Product identifier	%	GHS-US classification
potassium hydroxide	(CAS-No.) 1310-58-3	1-5	Met. Corr. 1, H290 Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314
trisodium nitrilotriacetate	(CAS-No.) 5064-31-3	0.05-1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Carc. 2, H351

A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4: First aid measure	S
4.1. Description of first aid measure	s
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. Wash with water and soap.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-aid measures after ingestion	: Rinse mouth with water. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects	: Causes serious eye damage. Causes skin irritation. Suspected of causing cancer.
Symptoms/effects after inhalation	: None under normal use.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.
Symptoms/effects after ingestion	: Gastrointestinal complaints. Cramps. Nausea.
	dical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	: All extinguishing media allowed.
5.2. Special hazards arising from th	e substance or mixture
Reactivity	: Upon combustion: CO and CO2 are formed.
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental releas	e measures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
General measures	: Isolate from fire, if possible, without unnecessary risk.
6.1.1. For non-emergency personnel	
Protective equipment	: Protective goggles. Gloves. Protective clothing.
Emergency procedures	: Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Stop leak if safe to do so. Stop release. Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment. Preve	nt soil and water pollution.
6.3. Methods and material for conta	inment and cleaning up
For containment	: Contain released product, pump into suitable containers.
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.

#### 6.4. Reference to other sections

Safety Data Sheet

SECTION 7: Handling and s	torage
7.1. Precautions for safe handlin	g
Precautions for safe handling	Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing.
Hygiene measures	: Wash thoroughly after handling. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage,	including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Store in original container.
Incompatible products	: Strong acids. Strong oxidizers.
Storage area	: Keep only in the original container. Store in a dry area. Store in a cool area.
Special rules on packaging	: meet the legal requirements.

#### **SECTION 8: Exposure controls/personal protection**

potassium hydrox	tide (1310-58-3)		
ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>	
ACGIH	Remark (ACGIH)	URT, eye, & skin irr	
tetrasodium ethyle	enediaminetetracetate (64-02-8)		
Not applicable			
trisodium nitrilotr	iacetate (5064-31-3)		
Not applicable			

Personal protective equipment

: Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Safety glasses. Protective clothing.



#### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties				
Physical state	: Liquid			
Appearance	: clear. Yellow liquid.			
Odor	: slight soy odor			
Odor threshold	: No data available			
рН	: 10 - 12.5			
Melting point	: No data available			
Freezing point	: No data available			
Boiling point	: No data available			
Flash point	: > 200 °F Closed Cup			
Relative evaporation rate (butyl acetate=1)	: No data available			
Flammability (solid, gas)	: No data available			
Explosion limits : No data available				
Explosive properties	: No data available			
Oxidizing properties : No data availabl				
Vapor pressure	: No data available			
Relative density	: No data available			
Relative vapor density at 20 °C	: No data available			
Specific gravity / density	: 1.03 g/ml			
Solubility	: Soluble in water.			

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Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
VOC content	: < 0.5 %

#### **SECTION 10: Stability and reactivity**

10.1. Reactivity		
Upon combustion: CO and CO2 are formed.		
10.2. Chemical stability		
No additional information available		
10.3. Possibility of hazardous reactions		
Refer to section 10.1 on Reactivity.		
10.4. Conditions to avoid		
No additional information available		
10.5. Incompatible materials		
May be corrosive to metals. Strong acids. Oxid	zing agents.	
10.6. Hazardous decomposition products		
Under normal conditions of storage and use, ha	azardous decomposition products should not be produced.	
SECTION 11: Toxicological informa	tion	
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
potassium hydroxide (1310-58-3)		
LD50 oral rat	273 mg/kg (Rat)	
ATE CLP (oral)	273 mg/kg body weight	
tetrasodium ethylenediaminetetracetate (6	4-02-8)	
LD50 oral rat	> 2000 mg/kg (Rat)	
ATE CLP (oral)	500 mg/kg body weight	
trisodium nitrilotriacetate (5064-31-3)		
LD50 oral rat	1740 mg/kg rat, male and female	
LD50 dermal rabbit	> 2000 mg/kg	
ATE CLP (oral)	1740 mg/kg body weight	
Skin corrosion/irritation	: Causes skin irritation.	
	pH: 10 - 12.5	
Serious eye damage/irritation	: Causes serious eye damage.	
	pH: 10 - 12.5	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Suspected of causing cancer.	
trisodium nitrilotriacetate (5064-31-3)		
IARC group	2B - Possibly carcinogenic to humans	
Reproductive toxicity	: Not classified	
Specific target organ toxicity - single exposure	: Not classified	
Specific target organ toxicity – repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Symptoms/effects after inhalation	: None under normal use.	
Symptoms/effects after skin contact	: Causes skin irritation.	
Symptoms/effects after eye contact	: Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.	

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Symptoms/effects after ingestion
Likely routes of exposure

: Gastrointestinal complaints. Cramps. Nausea.

: Skin and eye contact

2.1. Toxicity	
potassium hydroxide (1310-58-3)	
LC50 fish 1	80 mg/l (96 h, Gambusia affinis)
tetrasodium ethylenediaminetetracetate (64-	02-8)
LC50 fish 1	121 mg/l (96 h, Lepomis macrochirus, Literature study)
EC50 Daphnia 1	625 mg/l (24 h, Daphnia magna, Literature study)
trisodium nitrilotriacetate (5064-31-3)	·
LC50 fish 1	114 mg/l Pimephales promelas (fathead minnow); Test Type: flow-through test
EC50 Daphnia 1	> 100 mg/l Daphnia magna (Water flea); Test Type: static test
ErC50 (algae)	91.5 mg/l Desmodesmus subspicatus (green algae); Exposure time: 72 h; Test Type: static test; Method: OECD Test Guideline 201
2.2. Persistence and degradability	
potassium hydroxide (1310-58-3)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	
	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
tetrasodium ethylenediaminetetracetate (64-	02-8)
Persistence and degradability	Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	< 0.002 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.54 - 0.58 g O₂/g substance
2.3. Bioaccumulative potential	
potassium hydroxide (1310-58-3)	
Bioaccumulative potential	Not bioaccumulative.
tetrasodium ethylenediaminetetracetate (64-	02-8)
Log Pow	-2.6
Bioaccumulative potential	Not bioaccumulative.
SECTION 13: Disposal considerati	ons
•	
3.1. Waste treatment methods Product/Packaging disposal	: Dispose in a safe manner in accordance with local/national regulations.
ecommendations	
SECTION 14: Transport informatio	n
Department of Transportation (DOT)	
n accordance with DOT : Not regulated for	or transport
Additional information	· · ·
	: No supplementary information available.
ADR	
lo additional information available	
ransport by sea	
No additional information available	
Air transport	

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#### **SECTION 15: Regulatory information**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

potassium hydroxide	(1310-58-3)	
Not subject to reporting requirements of the United States SARA Section 313		
CERCLA RQ		1000 lb
	methanol, which is	pose you to Formaldehyde, which is known to the State of California to cause cancer, and known to the State of California to cause birth defects or other reproductive harm. For more vw.P65Warnings.ca.gov.

#### SECTION 16: Other information

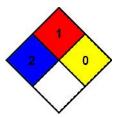
Training advice

: Normal use of this product shall imply use in accordance with the instructions on the packaging.

#### Full text of H-phrases:

H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H351	Suspected of causing cancer

NFPA health hazard	:	2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	:	1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	:	0 - Material that in themselves are normally stable, even under fire conditions.



#### Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.